Simplicity®

OWNER'S MANUAL AND PARTS LIST

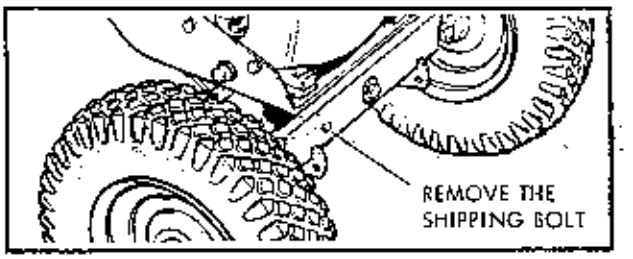
MODEL 725 & MODEL 700

RIDING TRACTORS

PRINTED IN U.S.A.

SIMPLICITY MANUFACTURING COMPANY, INC. TP – 1231

Your Tractor is shipped completely assembled except that the rear lift group's lift lever assembly must be installed. Also; the 3/8" bolt, that locks the front axle during shipment, must be removed before operation of the tractor.



REAR LIFT GROUP INSTALLATION

The Rear Lift Group is to be installed in the following manner:

1. Remove 3 hex cap screws from left side of tractor as shown in figure 1.

2. Swing hitch member outward and install lift assembly as shown. Return hitch member to original position and replace hex cap screws. See figure 2.

3. Insert right end of lift assembly into hole in right hitch member and position lift assembly so that collar is flush against right hitch member. Position collar on left side of lift assembly so it is flush against left hitch member; tighten socket hd set screw with allen-wrench. See figure 3.

4. Connect lift assembly to clevis by means of pin, spacer, and cotter pin. Keep spacer on left side of lift assembly. See figure 3.

5. Adjust rear lift rod so that there is clearance between the gear case and the lift assembly when the lift lever is in the forward, latched, position. Also adjust rod so that the lift assembly will strike the gear case before the lift lever strikes the air cleaner on engine when lift lever overtravels forward.

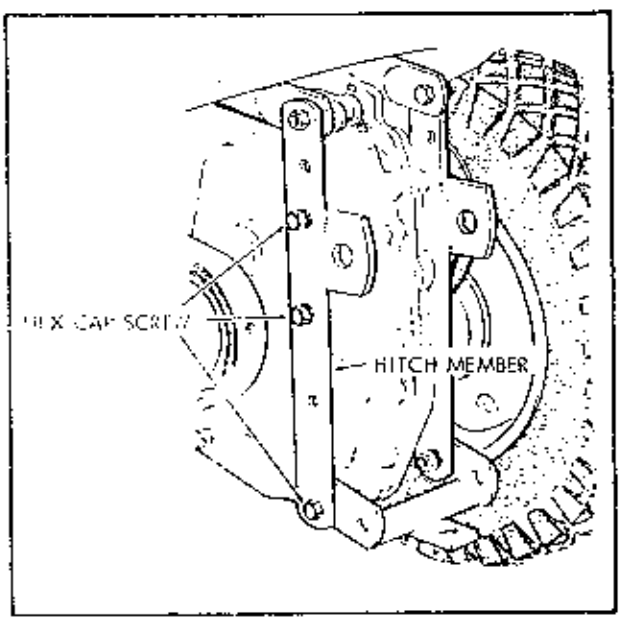


Fig. 1

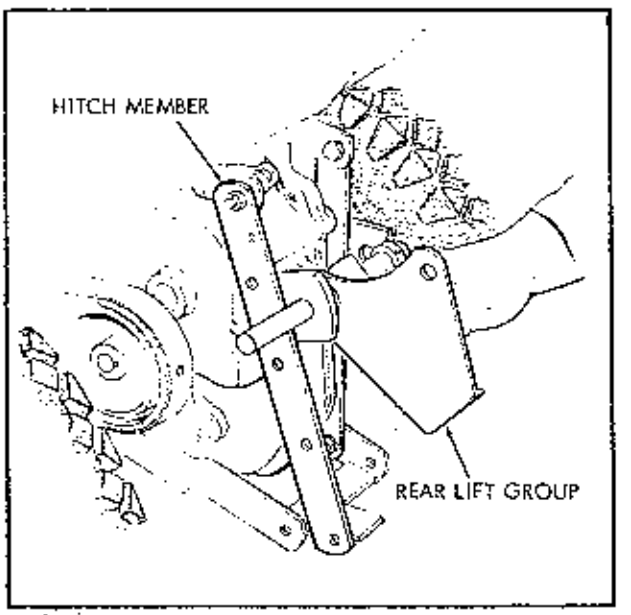


Fig. 2

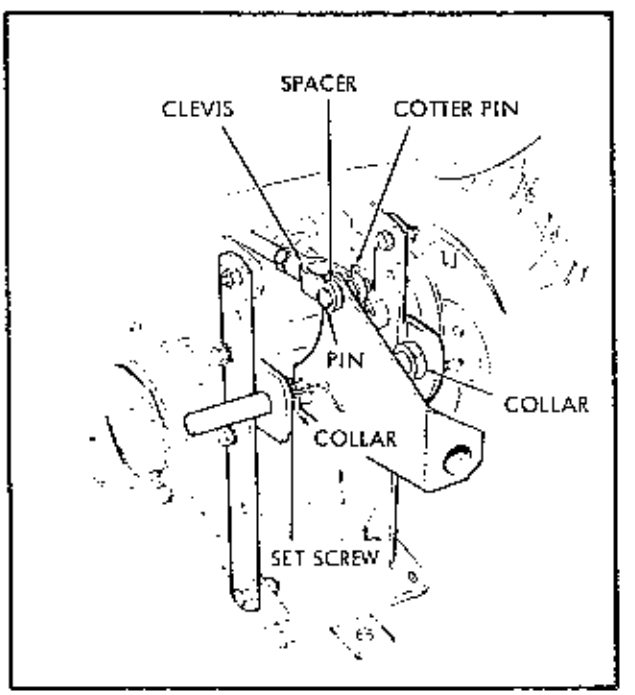


Fig. 3

LUBRICATION

The tractor has a total of 5 grease fittings which require lubrication with general purpose automotive grease. Use a standard grease gun for the following fittings:

Before lubricating, wipe each grease fitting with a rag to prevent grit and dirt from being carried into bearings with new grease.

(2) Front Spindles - figure 4
(2) Steering Mechanism - figure 6
(1) Rear Axle Tube - figure 7

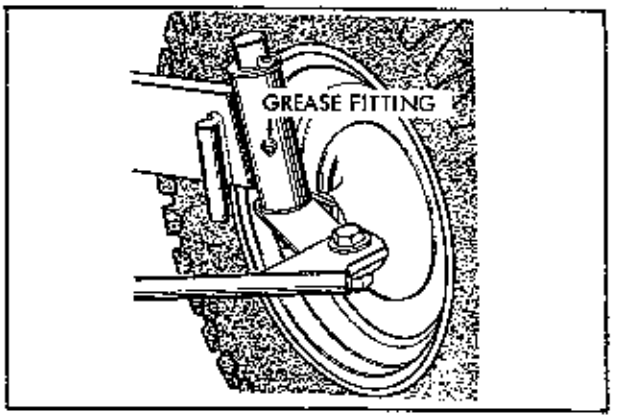
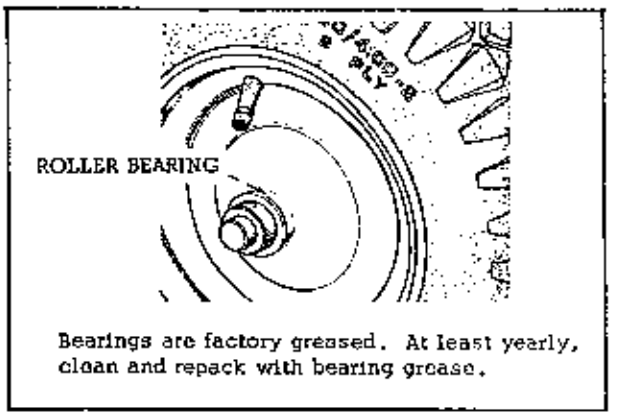


Fig. 4



Bearings are factory greased. At least yearly, clean and repack with bearing grease.

Fig. 5

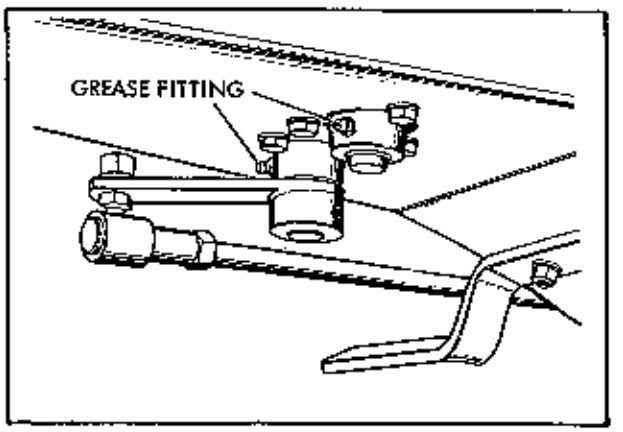


Fig. 6

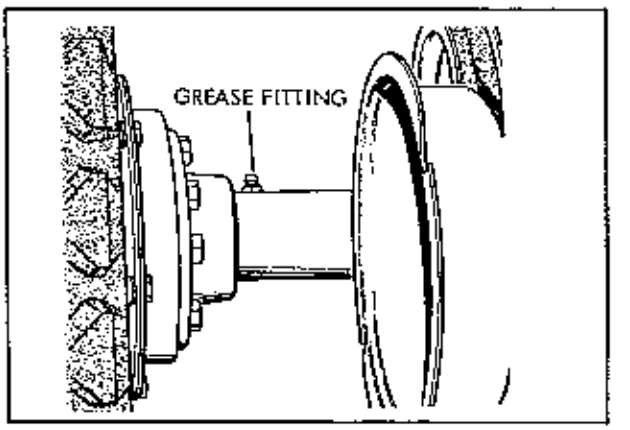


Fig. 7

LIFTING THE HOOD

The Tractor hood is arranged to swing forward to make the engine readily accessible by following this simple procedure:

1. Lift the front of the hood to unlatch.

2. Raise the rear of the hood approximately 1" and pull forward to clear the steering wheel.

3. Lift rear of hood upward and forward to its stop.

4. If difficulty is experienced in performing steps 1 or 2, loosen hex nuts "BC" slightly. Refer to the exploded view illustration on page 14.

5. If a binding condition is noted when returning the hood to its normal latched position, loosen hex cap screws "AG" and adjust position of the vertical tubes of item "AD" until the hood operates in a satisfactory manner. Retighten hex cap screws "AG" and lock "AD" in this position. Refer to the exploded view illustration on page 20.

The transmission has a capacity of 3 1/2 Qts. of SAE 90 oil, and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and axle tube oil seals for leakage. Maintain oil level at lower edge of filler plug hole. Remove vent plug from top of transmission and allow oil to settle to normal level before checking. See Figure 9.

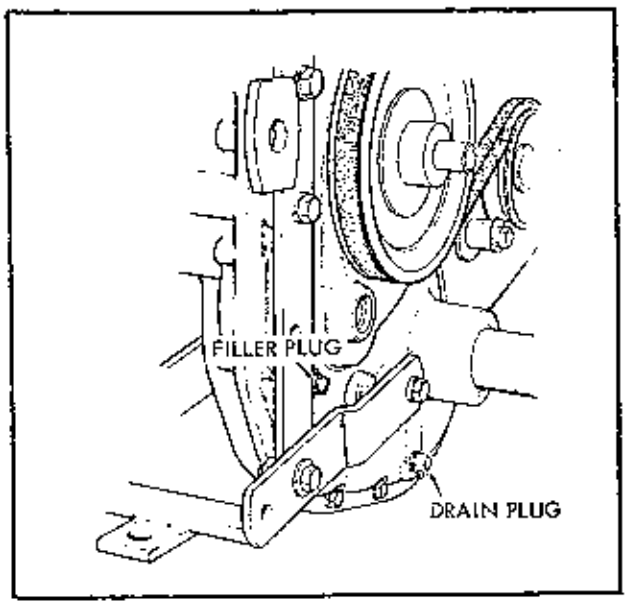


Fig. 9

ENGINE

Engine - Service air cleaner and crankcase as recommended in engine service manual. Be sure air cleaner is maintained in clean condition. Never use oil in crankcase for more than 25 hours of operation. See figure 16. CLEAN AIR AND CLEAN ENGINE OIL WILL GIVE LONG TROUBLE FREE OPERATION. DIRT WILL RUIN YOUR ENGINE IN A SHORT TIME. A funnel and extension are included with the tractor for use in changing oil.

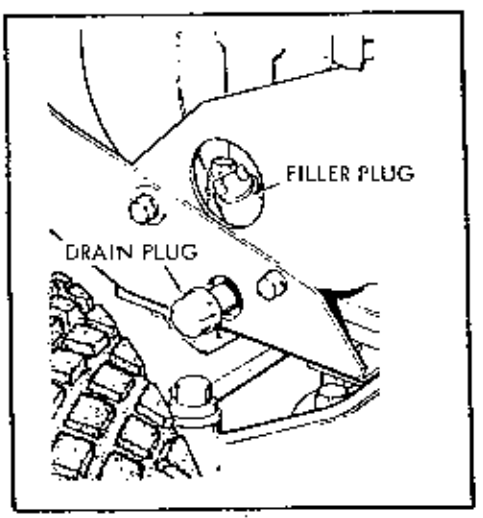


Fig. 11

The bevel gear housing has a capacity of 1 pint of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and oil seals for leakage. Keep oil up to level of filler plug. See figure 10.

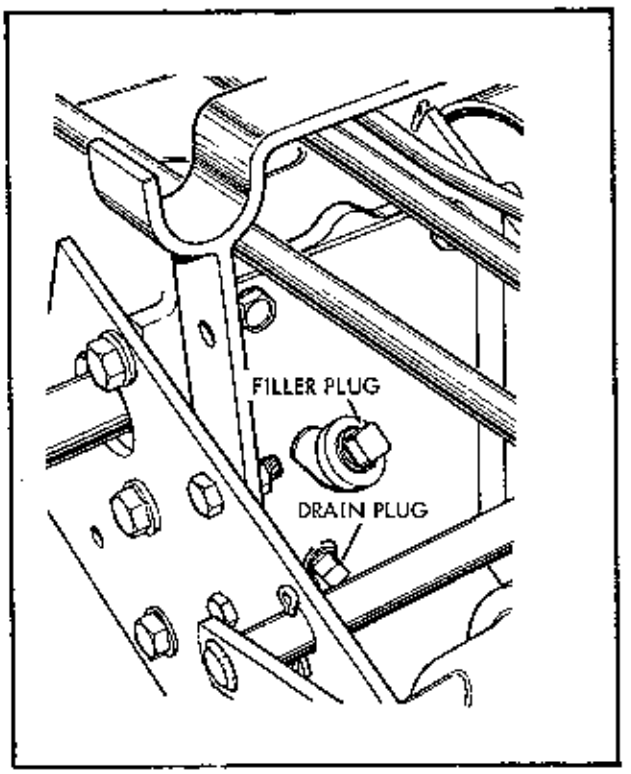


Fig. 10

TIRES

The tires of the tractor are inflated with air pressure in excess of the normal amount for shipment. For comfort of operation, release some of the pressure until a pressure of 12 lbs per square inch is attained for front tires and 14 lbs per square inch is attained for rear tires. Maintain tires at these pressures.

BATTERY

Battery - The battery should be kept clean and dry at all times. Keep battery snugly fastened in place and check battery cables for tight connections. Vent caps should be kept tight, and vent holes in vent caps must be kept open at all times to permit gases formed in battery to escape. Full maintenance instructions are provided on separate instruction card for battery.

If tractor is not used for an extended period during winter, remove battery and store in a fully charged condition, in a cool place.

STARTING ENGINE-ELECTRIC STARTER

1. Place gear shift lever in neutral position. See figure 12. (Be sure tractor is on level ground and will not roll away in neutral. Apply parking brake.)
2. Place choke lever in "CHOKE" position. See figure 12 & 13.
3. Set throttle lever in mid position and turn ignition key to "ON". See figure 12. Press starter button to start engine and release. As engine warms up, return choke lever to "RUN" position.

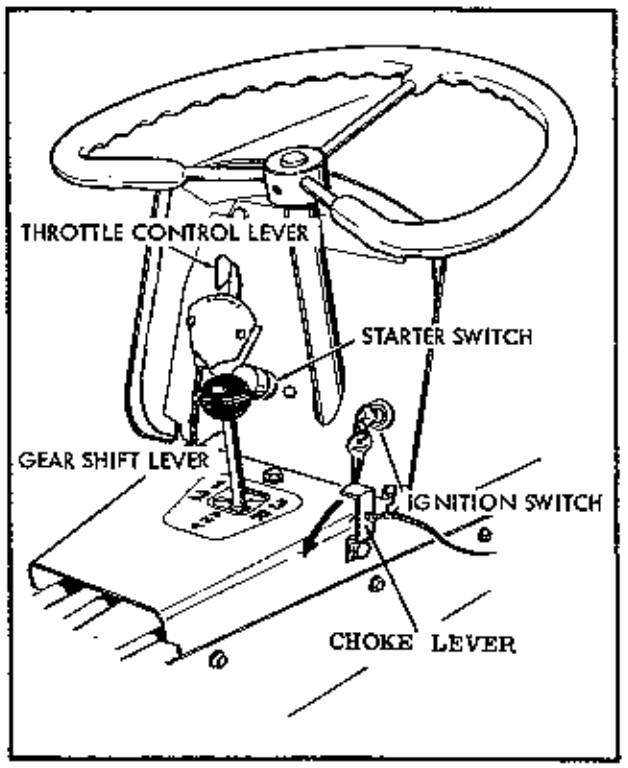


Fig. 12

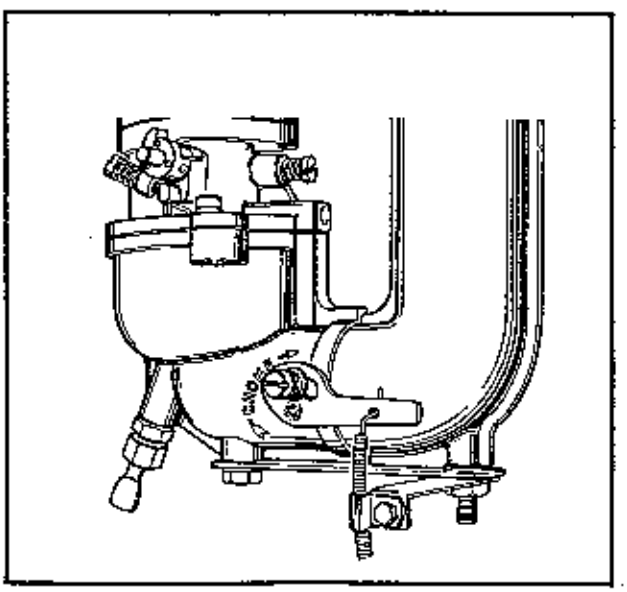


Fig. 13

STARTING ENGINE- MANUAL

1. Place gear shift lever in neutral position. See figure 12. (Be sure tractor is on level ground and will not roll away.)
2. Pull lift lever handle all the way back and raise seat all the way up.
3. Place choke lever in "CHOKE" position. See figure 12 & 13.
4. Place throttle lever in mid position and turn ignition key to "ON" position. See figure 12.
5. Engage starter rope knot in groove on starter pulley and wind rope around pulley in a clockwise direction. See figure 14. Pull starter rope upwards, rapidly and firmly to start engine. As engine warms up, return choke lever to "RUN" position.

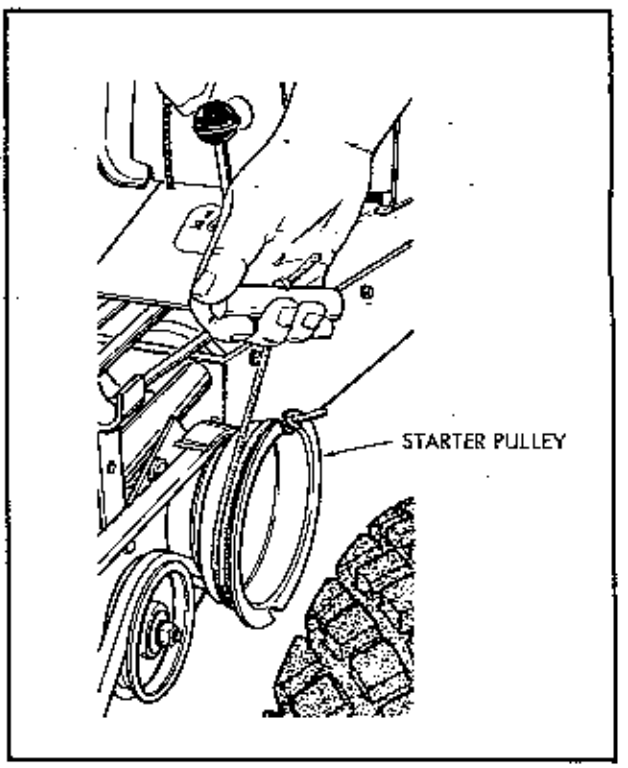


Fig. 14

TO STOP ENGINE

With clutch disengaged, place gear shift in any gear and turn ignition key to "OFF" position. Engage clutch to hold tractor in parked position and remove ignition key for safekeeping. Apply parking brake! See figure 15.

OPERATION OF TRACTOR

To place gear shift in desired gear range, depress the combination brake and clutch pedal located on right hand side of tractor. See figure 15. When pedal is depressed move shift lever to desired position (see figure 12) and gradually release pedal until clutch is engaged. When shifting from one range to another, pause briefly in neutral before completing shift. Set throttle lever to obtain desired speed. See figure 12.

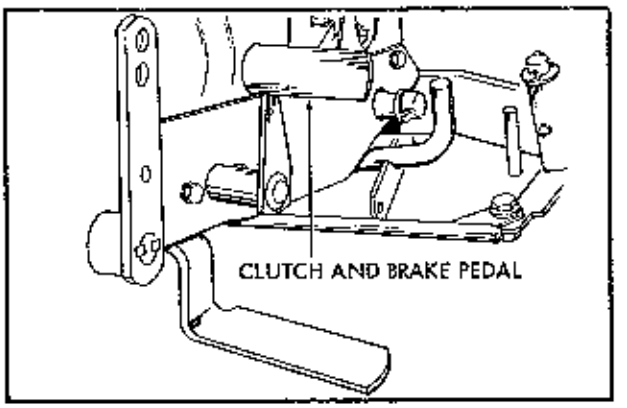


Fig. 15

PARKING BRAKE ADJUSTMENT

Depress foot pedal until brake holds securely; flip cap screw toward rear for park. See figure 16. Adjust length of screw to permit screw head to wedge on bottom of frame and hold lever in depressed position with brake applied.

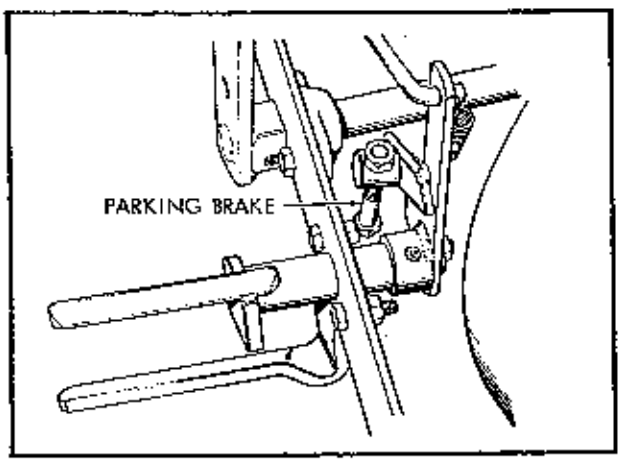


Fig. 16

CLUTCH AND BRAKE ADJUSTMENT

1. With clutch and brake pedal in normal position (i.e., clutch engaged, and brake released) adjust Hex nuts (A) to give 3/4" clearance between Rod Guide Assy (B) and nuts. See figure 17.
2. Pull brake band up by hand, so that it is tight around brake drum. Adjust hex screw (C) to have a clearance of 1" between brake band and screw as shown in figure 18.
3. Adjust nut (D) to permit clutch link (E) to pivot freely without excessive play. See figure 19.
4. Adjust nut (F) to permit clutch link (E) to pivot freely without excessive play and check to see that nut has at least 1-1/2" of travel before touching transmission case. See figure 19.
5. When clutch is disengaged and brake is applied, the clutch and brake lever assembly should have at least 1" of travel before touching bevel gear housing.

To compensate for belt stretch or other variances, you may need to move the idler pulley "G", Fig. 19, into the alternate hole provided in its lever arm.

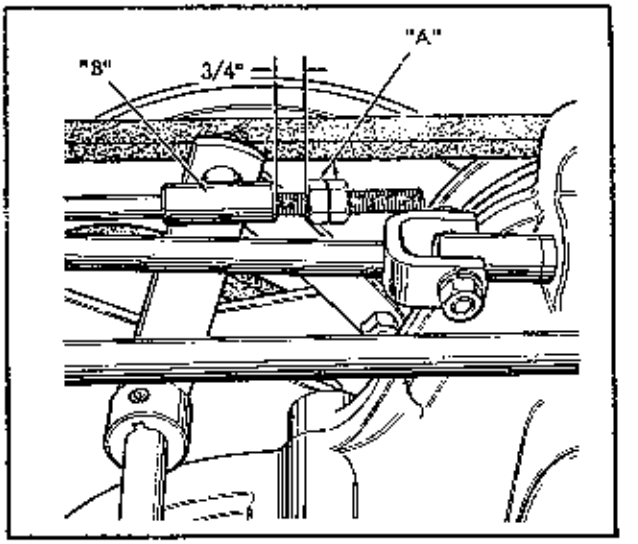


Fig. 17

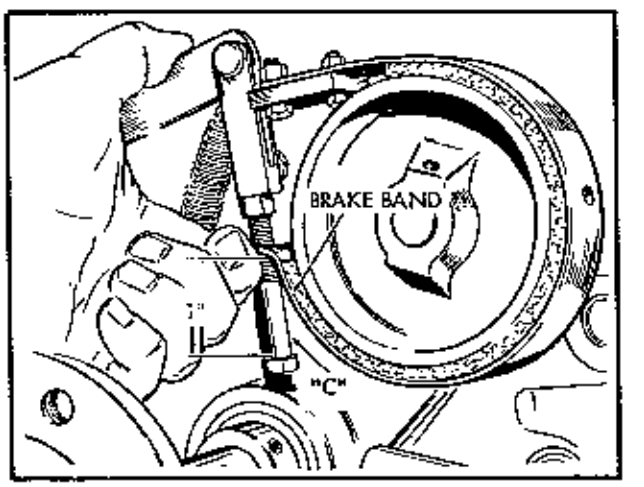


Fig. 18

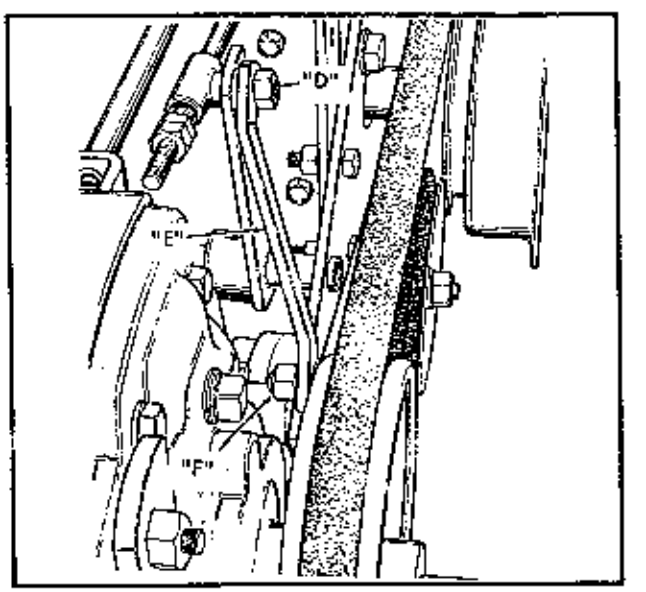


Fig. 19

POWER TAKE-OFF

For operation of Rotary Mower and Sickle Bar attachments, a power take-off attachment is required. This consists of the power take-off assembly, "V" pulley for bevel gear shaft, drive belt, belt guard, and belt stop packaged in one carton.

For ease of attachment follow the steps outlined below.

1. Mount "V" Pulley to shaft of bevel gear assembly (see figure 1) and secure in place with key and set screw. Hub of "V" pulley is to face inwards. Place drive belt on "V" pulley and mount belt guard to the seat support as shown in figure 1. Allow approximately 3/16" clearance between the outside of the belt and the belt guard.

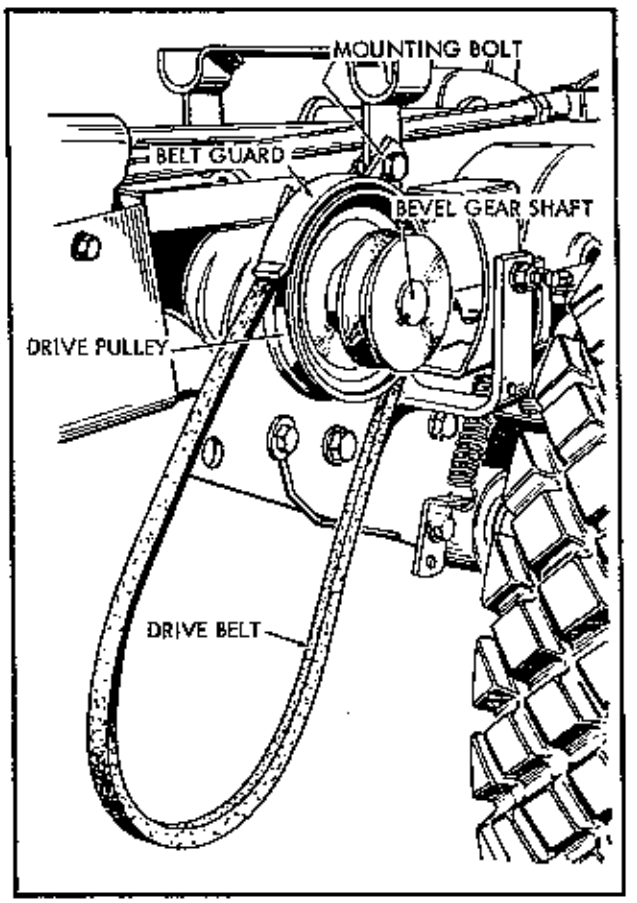


Fig. 1

2. Holding the power take-off assembly in left hand as shown in figure 2, position the tube of the drive bracket assembly between the bevel gear housing side plates. Align the holes in side plates with the hole in drive bracket assembly tube and insert pivot pin through holes in side plates and drive bracket assembly tube.

3. Push pivot pin through the holes in bracket and tube until the position of cotter pin hole in pivot pin is as shown in figure 3. Secure in position with cotter pin furnished.

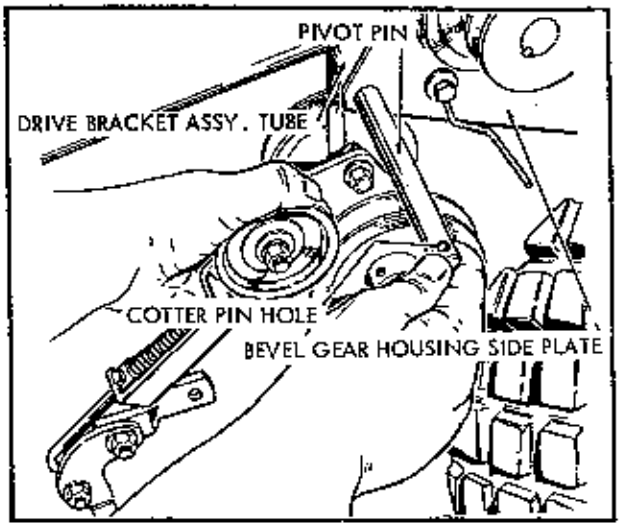


Fig. 2

4. Remove hex cap screw "D" from frame of tractor and mount bracket in place under lift lever quadrant. See figure 4. Position the pivot bar assembly flush against bottom of lift quadrant and re-install hex cap screw and tighten securely. Check alignment of drive pulley on bevel gear shaft, driven pulley of power take-off, and idler pulley, and adjust driving pulley if necessary.

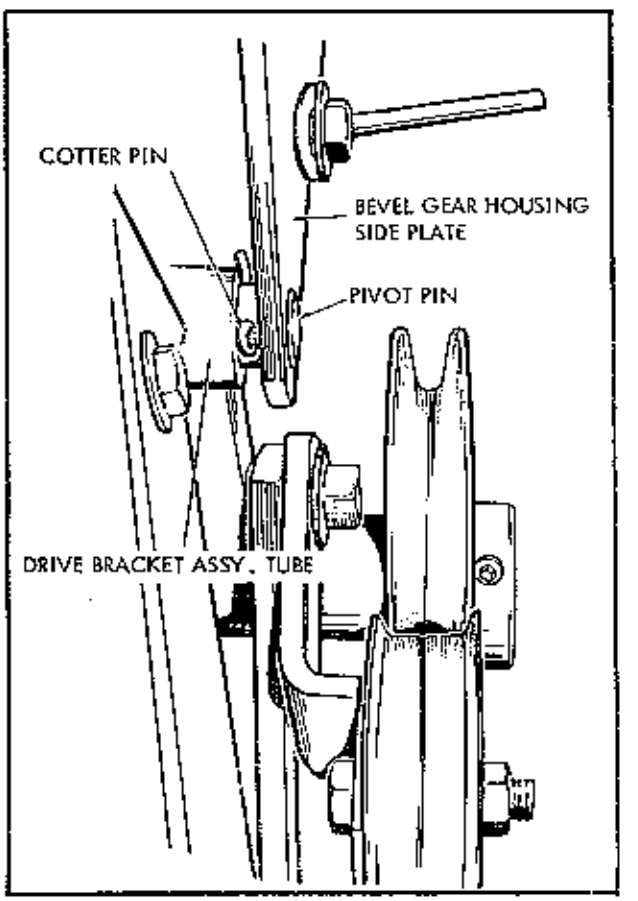


Fig. 3

5. Mount "V" belt in place on driven pulley as shown in figure 5 and attach spring to bottom hole in the spring holder and hook other end of the spring to the idler lever spring holder. Mount belt stop as shown with 3/8" bolt, flat washer, lockwasher and hex nut. When idler pulley is engaged, 1/8" clearance between belt stop and back of "V" belt is required. Note: "V" belt runs under idler pulley. See figure 5.

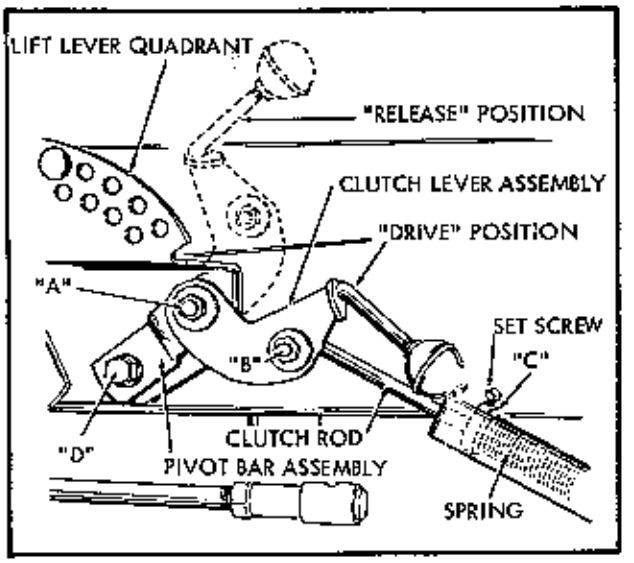


Fig. 4

LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun loaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation.

OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See figure 4. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idler pulley against the drive belt, and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes-up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power take-off. Figure 4 shows clutch lever in drive position.

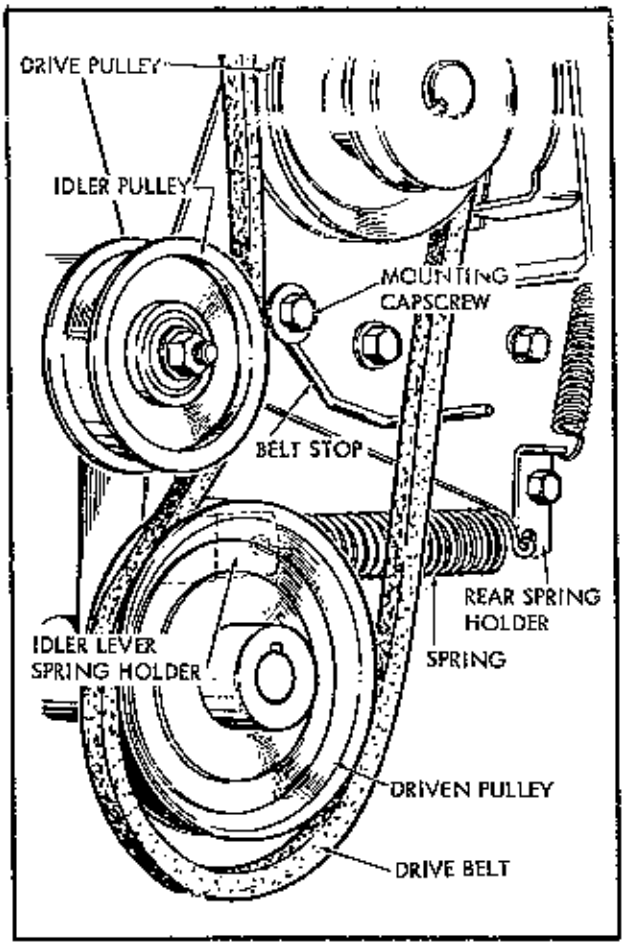


Fig. 5

ADJUSTMENT

At points "A" and "B" of figure 4, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "drive" position and observe clearance between collar "C" (figure 4) and end of bracket. This clearance should normally be approximately 3/4 inch; at this setting the idler pulley should be snugly against the drive belt. If additional tension is required, release clutch lever and loosen set screw on collar and slide collar farther back on clutch rod. Retighten set screw in collar and put clutch lever in drive position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of belts and idler pulley bearings.

REPAIR PARTS

HOW TO ORDER REPAIR PARTS FOR

SIMPLICITY TRACTORS AND ATTACHMENTS

The Authorized Simplicity dealer from whom you purchased your equipment can supply any replacement parts you need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order directly from the factory.

To have your order filled correctly and for prompt service, please furnish the following information:

1. Model, number and year of purchase of equipment.
2. Part number, description, quantity of part. (See parts list)

Be sure to include postage with your order. We do not pay transportation charges.

We reserve the right to change construction, specifications,

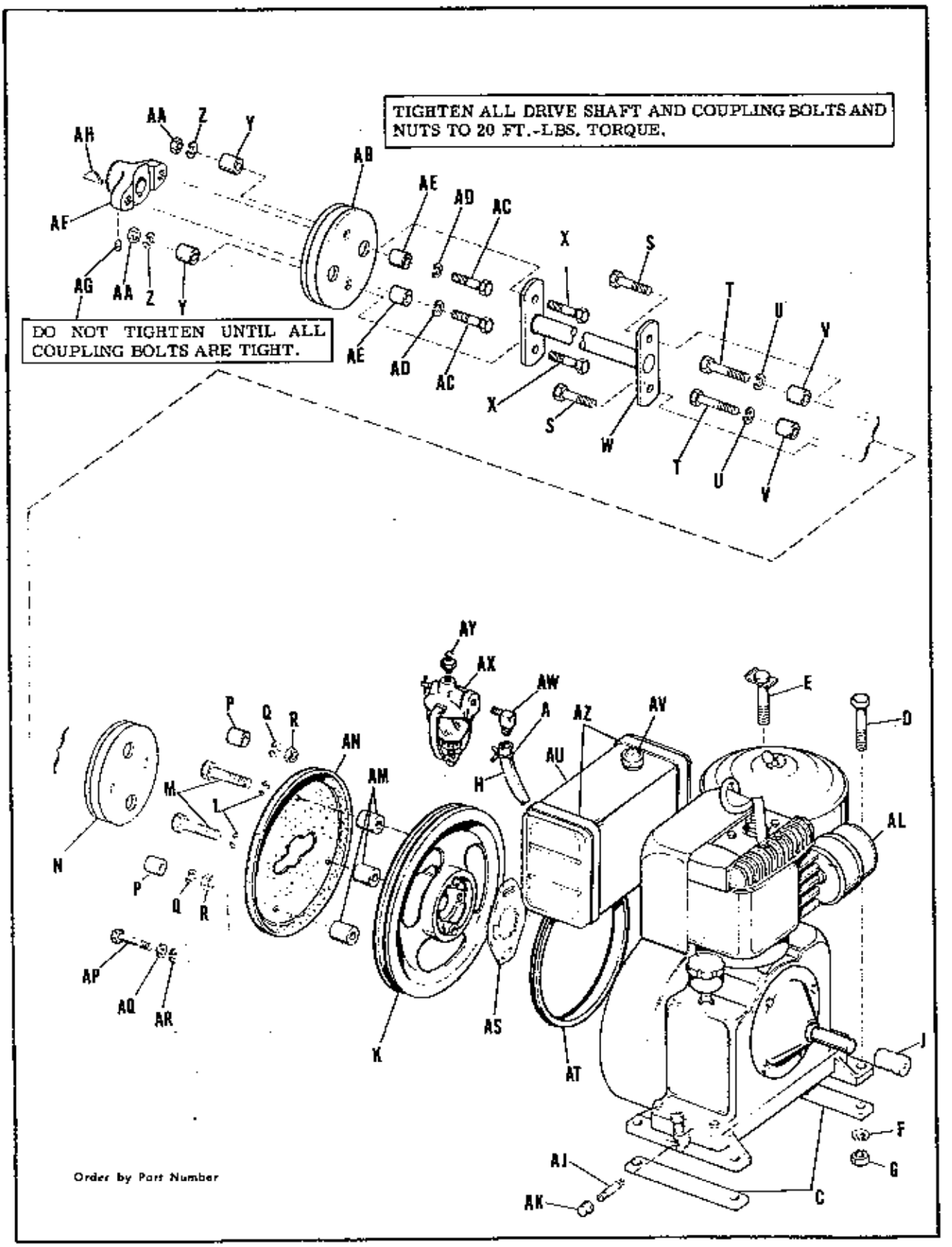
prices and terms, without notice and without obligation

as to equipment heretofore shipped.

GUARANTEE

The Company guarantees Simplicity Products to be free from defects in material and workmanship. Any part proven defective within one year, under normal use, from date of purchase, (except tires, engines and engine accessories which, usually are warranted by their respective manufacturers), will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid, and if upon examination at the factory found to be defective. The Company is not obligated under this guarantee to bear cost of labor or delivery charges in replacement of defective parts. This guarantee does not apply to any Simplicity Products altered outside of Simplicity's factory.

ENGINE AND DRIVE SHAFT



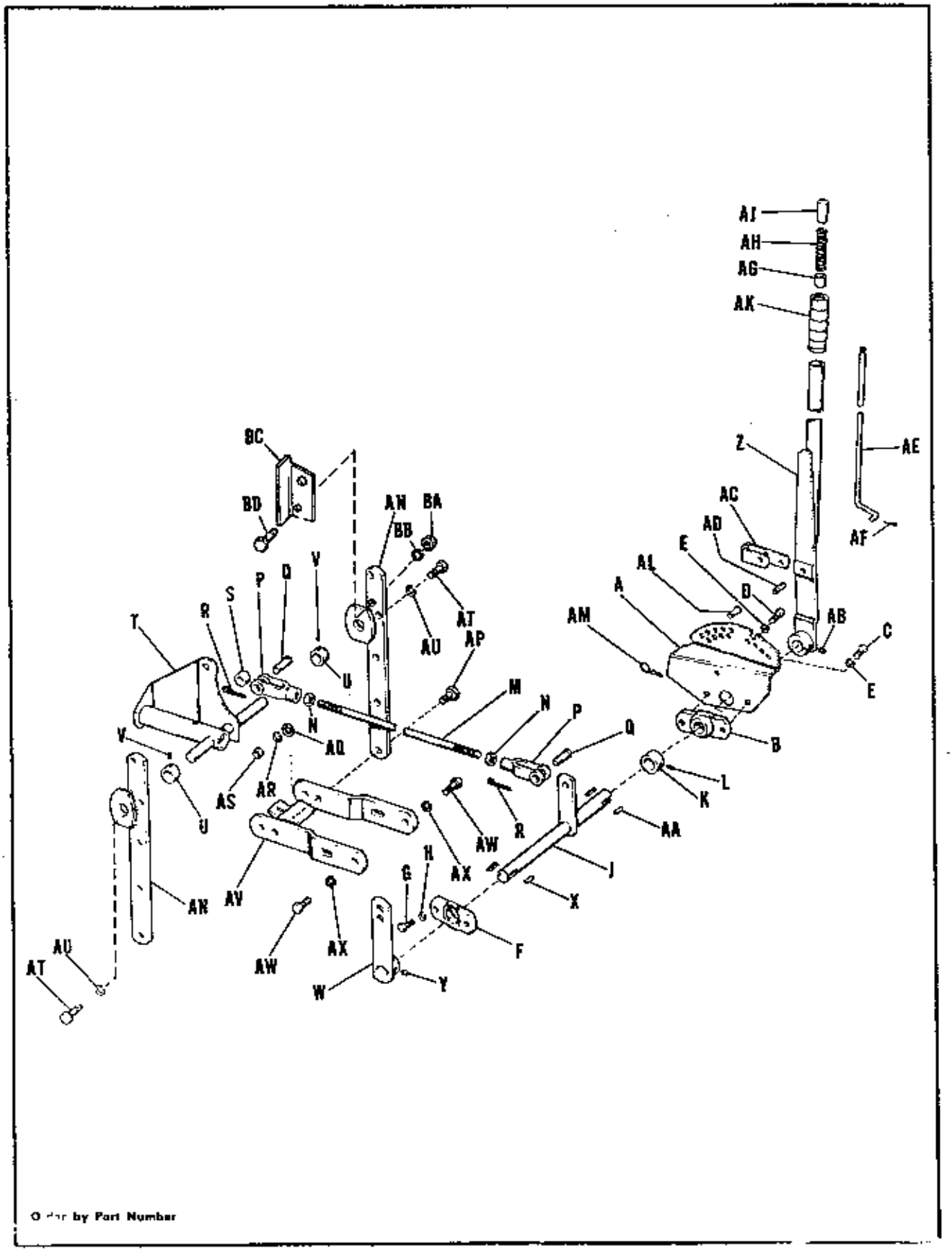
Order by Part Number

ENGINE AND DRIVE SHAFT

Order by Part Number

Reference Letter	Part No.	Description
A	154372	Hose Clamp
B	718003	Locknut, Control Wire Casing (not illustrated)
C	154032	Spacer, Engine
D	705006	Screw, Cap, Hex., 3/8" - 16 N. C. x 2" lg.
E	154315	Screw Assembly, Engine, L. H. Rear
F	720002	Washer, Lock, 3/8"
G	717003	Nut, Hex., Full, 3/8" - 16 N. C.
H	154371	Hose, Fuel (flexible)
J	154327	Guard, Crankshaft Extension
K	154476	Pully, Engine
L	720001	Washer, Lock, 5/16"
M	715025	Screw, Cap, Hex., 5/16" - 18 N. C. x 1-3/4" lg.
N	154194	Coupling Assembly
P	154192	Spacer
Q	720002	Washer, Lock, 3/8"
R	717003	Nut, Hex., Full, 3/8" - 16 N. C.
S	705009	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/2" lg.
T	705010	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-3/4" lg.
U	720002	Washer, Lock, 3/8"
V	154192	Spacer
W	154196	Shaft Assembly, Drive
X	705009	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/2" lg.
Y	154192	Spacer
Z	720002	Washer, Lock, 3/8"
AA	717003	Nut, Hex., Full, 3/8" - 16 N. C.
AB	154194	Coupling Assembly
AC	705009	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/2" lg.
AD	720002	Washer, Lock, 3/8"
AE	154192	Spacer
AF	154198	Flange, Drive Shaft
AG	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
AH	725504	Key, Hi-Pro
AJ	154350	Nipple, Pipe, 3/8" Std. x 2" lg.
AK	726501	Cap, Pipe, 3/8" Std.
AL	154379	Muffler, Exhaust
AM	154485	Spacer
AN	154477	Screen, Engine
AP	705008	Screw, Cap, Hex. 1/4" - 20 NC. x 1-1/4" lg.
AQ	719007	Washer, Plain
AR	720003	Washer, Lock
AS	154292	Nut, Lock
AT	154481	Seal, Blower, Housing
AU	154415	Tank
AV	154416	Cap
AW	154411	Fitting, Fuel Line.
AX	154414	Filter Bowel Ass'y.
AY	154413	Connector
AZ	154417	Strap, Tank.

REAR LIFT DRAW BAR GROUP



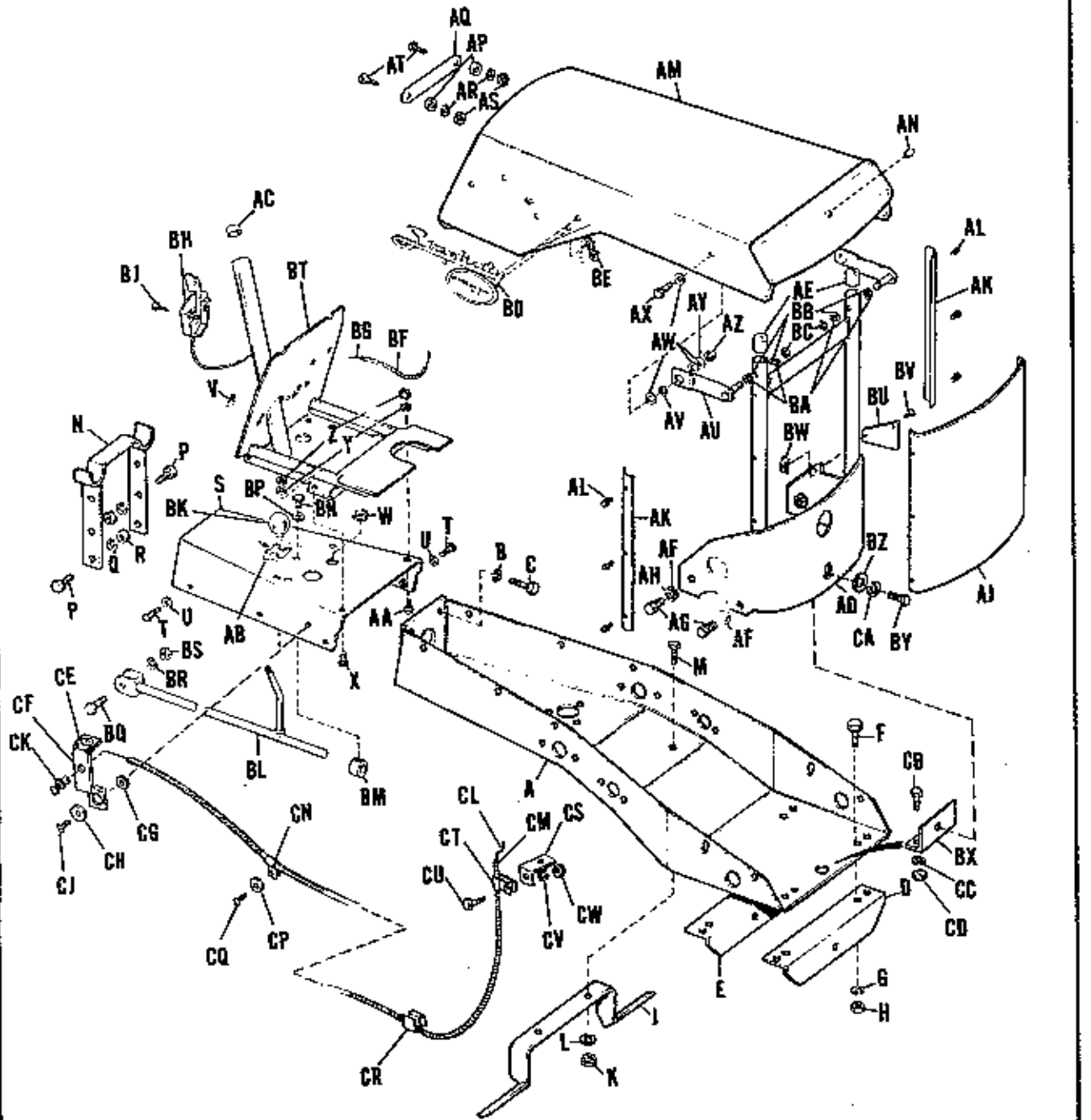
Order by Part Number

REAR LIFT AND DRAW BAR GROUP

Order by Part Number

Reference Letter	Part No.	Description
A	154209	Quadrant, Lift Lever
B	154210	Bearing, Lift Lever
C	705031	Screw, Cap, Hex., 3/8" - 16 N. C. x 7/8" lg.
D	705016	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/4" lg.
E	720002	Washer, Lock, 3/8"
F	154210	Bearing, Lift Lever
G	705031	Screw, Cap, Hex., 3/8" - 16 N. C. x 7/8" lg.
H	720002	Washer, Lock, 3/8"
J	154211	Shaft Assembly, Lift
K	8211005	Collar, Set
L	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
M	154213	Rod, Rear Lift
N	717008	Nut, Hex., Full, 1/2" - 20 N. C.
P	154304	Yoke End, Adj.
Q	154305	Pin, Yoke
R	722006	Pin, Cotter, 1/8" x 1" lg.
S	105051	Spacer
T	154214	Lift Assembly, Tiller
U	8021010	Collar, Set
V	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
W	154318	Lever Assembly, Front Lift
X	154096	Key
Y	713502	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 1/4" lg.
Z	154218	Lever Assembly, Lift
AA	154096	Key
AB	713502	Screw, Set, Cup Point, Hollow Head, 5/16" - 18 N. C. x 1/4" lg.
AC	154224	Latch, Lift Lever
AD	723007	Pin, Roll
AE	154225	Rod, Latch
AF	722001	Pin, Cotter, 3/32" x 3/4" lg.
AG	154226	Spacer
AH	152006	Spring
AJ	154227	Button, Thumb
AK	154306	Grip, Handle
AL	153058	Pin
AM	8161045	Clip, Spring
AN	154200	Arm Assembly
AP	705041	Screw, Cap, Hex., 7/16" - 14 N. C. x 1
AQ	719001	Washer, Plain, 3/8"
AR	720006	Washer, Lock, 3/8"
AS	717002	Nut, Hex., Full, 7/16"
AT	705041	Screw, Cap, Hex., 7/16" - 14 N. C. x 1" lg.
AU	720006	Washer, Lock, 7/16"
AV	154202	Bar Assembly, Draw
AW	705041	Screw, Cap, Hex., 7/16" - 14 N. C. x 1" lg.
AX	720006	Washer, Lock, 7/16"
BA	717001	Nut, Full, Hex. 5/16"
BB	720001	Washer, Lock 5/16"
BC	154422	Stop, Seat
BD	705001	Screw, Cap, Hex. 5/16" - 18 NC. x 7/8" lg.

FRAME, HOOD, GRILL, INST. PANEL & STEERING POST



Order by Part Number

FRAME, HOOD, GRILL, INST. PANEL & STEERING POST

Order by Part Number

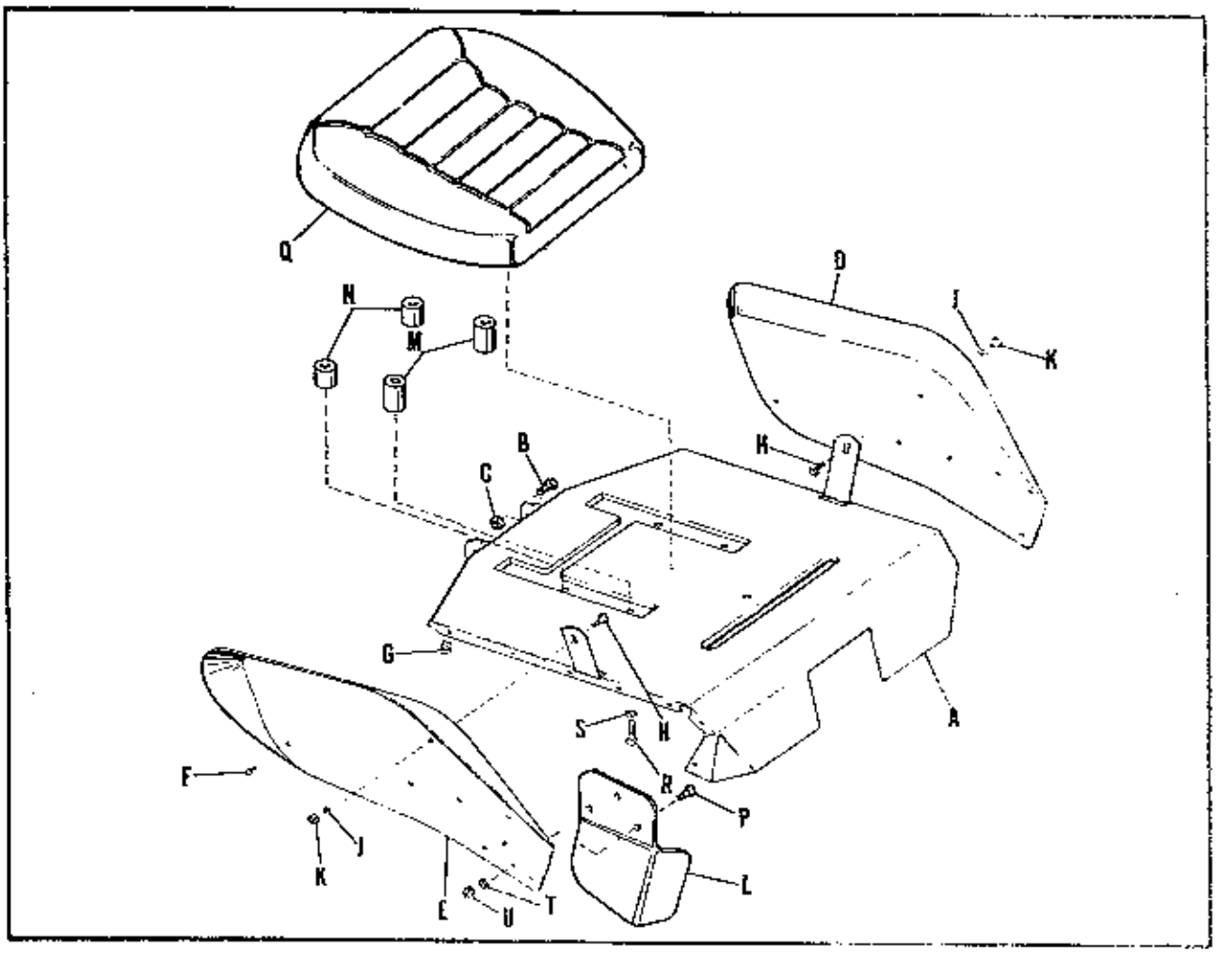
Reference Letter	Part No.	Description
A	154043	Frame Assembly
B	720006	Washer, Lock, 7/16"
C	705039	Screw, Cap, Hex., 7/16" - 14 N. C. x 1-1/2" lg.
D	154033	Angle, Frame, Front
E	154420	Angle, Frame, Rear
F	705031	Screw, Cap, Hex., 3/8" - 16 N. C. x 7/8" lg.
G	720002	Washer, Lock, 3/8"
H	717003	Nut, Hex., Full, 3/8" - 16 N. C.
J	154036	Foot Rest
K	717003	Nut, Hex., Full, 3/8" - 16 N. C.
L	720002	Washer, Lock, 3/8"
M	705005	Screw, Cap, Hex., 3/8" - 16 N. C. x 1" lg.
N	154038	Support Assembly, Seat
P	705007	Screw, Cap, Hex., 5/16" - 18 N. C. x 1" lg.
Q	720001	Washer, Lock, 5/16"
R	717001	Nut, Hex., Full, 5/16" - 18 N. C.
S	154053	Cover Assembly, Frame
T	714013	Screw, Recessed, Hex., 1/4" - 28 x 7/8" lg
U	720003	Washer, Lock, 1/4"
V	154288	Button, Plug
W	154290	Grommet, Rubber
X	705021	Screw, Cap, Hex., 1/4" - 20 N. C. x 1" lg.
Y	717005	Washer, Lock, 1/4"
Z	717005	Nut, Hex., Full, 1/4" - 20 N. C.
AA	705030	Screw, Cap, Hex., 1/4" - 20 N. C. x 3/4" lg.
AB	154320	Decal, Shift Instruction
AC	154289	Bushing
AD	154407	Support Assembly, Grill
AE	154316	Bumper, Hood
AF	720001	Washer, Lock, 3/8"
AG	705011	Screw, Cap, Hex., 3/8" - 16 x 5/8" lg.
AH	719001	Washer Plain 3/8"
AJ	154186	Grill
AK	154187	Molding Strip
AL	714003	Screw, Self Topping #10 x 1/2" lg.
AM	154049	Hood Assembly
AN	154302	Button, Plug
AP	8161215	Bushing
AQ	154016	Bar, Hood Latch
AR	720001	Washer, Lock, 5/16"
AS	717001	Nut, Hex., Full, 5/16" - 18 N. C.
AT	705017	Screw, Cap, Hex., 5/16" - 18 N. C. x 3/4" lg.
AU	154188	Pivot Link Assembly, Hood
AV	8161215	Bushing
AW	719001	Washer, Plain, 3/8"
AX	705016	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/4" lg.
AY	720002	Washer, Lock, 3/8"
AZ	717003	Nut, Hex., Full 3/8" - 16 N. C.
BA	154303	Washer, Plain, Nylon
BB	719001	Washer, Plain, 3/8"
BC	717510	Nut, Lock, Hex., Full
BD	154391	Emblem, Simplicity
BE	718018	Nut, Speed, Push On
BF	154294	Cable, Throttle
BG	154295	Wire, Throttle
BH	154293	Control, Throttle Lever
BJ	714010	Screw, Self Tapping, Round Slotted Head, #10 - 24 x 1" lg.
BK	8021050	Ball

FRAME, HOOD, GRILL, INS. PANEL & STEERING POST (cont.)

Order by Part Number

Reference Letter	Part No.	Description
BL	154150	Rod Assembly, Shifter
BM	8301042	Collar
BN	705043	Screw, Cap, Hex., 5/16" - 18 N. C. x 3/8" lg.
BP	720001	Washer, Lock, 5/16"
BQ	705018	Screw, Cap, Hex., 5/16"-18 NC x 1 1/2" lg.
BR	720001	Washer, Lock, 5/16"
BS	717001	Nut, Hex., Full, 5/16"-18 NC
BT	154430	Support Assembly, Steering Post
BU	154410	Cover Plate
BV	714003	Screw, Self Tap, #10 x 1/2" lg.
BW	718019	Nut, Speed
BX	154385	Bracket Assembly
BY	705019	Capscrew, Hex, 5/16"-18 NC x 1 1/4" lg.
BZ	719002	Washer, Plain, 5/16"
CA	720001	Washer, Lock, 5/16"
CB	705007	Capscrew, Hex, 5/16"-18 NC x 1" lg.
CC	720001	Washer, Lock, 5/16"
CD	717001	Nut, Hex, Full, 5/16"-18 NC
CE	121294	Choke Decal
CF	154405	Choke Lever
CG	154406	Washer (spacer)
CH	719006	Washer, Plain, 1/4"
CJ	714012	Screw, Self Tap, 1/4"-20 NC x 7/8" lg.
CK	154403	Clamp, Wire
CL	154402	Wire, Choke
CM	154401	Cable, Choke
CN	154247	Clamp
CP	719006	Washer, Plain
CQ	714012	Screw, Self Tap, 1/4"-20 NC x 7/8" lg.
CR	154404	Speed Clip
CS	168186	Clip
CT	154247	Clamp
CU	705002	Capscrew, Hex, 1/4"-20 NC x 1/2" lg.
CV	720003	Washer, Lock, 1/4"
CW	717005	Nut, Hex, Full, 1/4"-20 NC

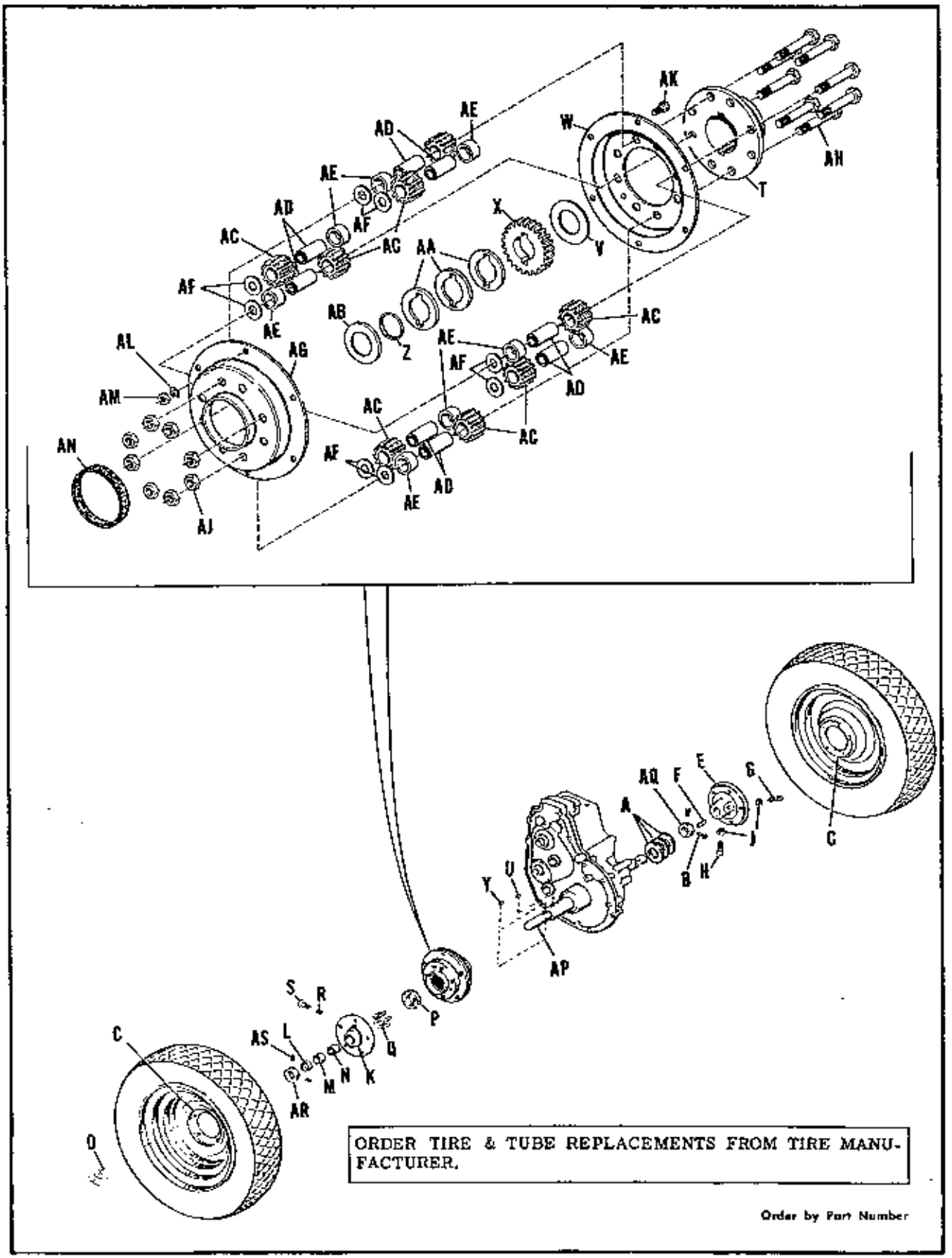
SEAT AND FENDERS



Order by Part Number

Reference Letters	Part No.	Description
A	154471	Cover and Seat Pivot Assembly
B	705031	Screw, Cap, Hex., 3/8" - 16 N.C. x 1 1/2" lg.
C	717510	Nut, Lock, Full, Hex., 3/8" - 16 N.C.
D	154044	Fender, L.H.
E	154474	Fender, R.H.
F	714003	Screw, Self Tapping, #10 x 1/2" lg.
G	718019	Nut, Speed, Tinnerman
H	705002	Screw, Cap, Hex., 1/4" - 20 N.C. x 1 1/2" lg.
J	720003	Washer, Lock, 1/4"
K	717005	Nut, Hex., Full, 1/4" - 20 N.C.
L	154475	Guard, Starter, Cup
M	154483	Spacer
N	154484	Spacer
P	705030	Screw, Cap, Hex. 1/4" - 20 NC. x 3/4" lg.
Q	154470	Assembly, Seat
R	705007	Screw, Cap, Hex., 5/16" - 18 N.C. x 1" lg.
S	720001	Washer, Lock, 5/16"
T	720003	Washer, Lock
U	717005	Nut, Hex, Full.

REAR WHEELS AND AXLE



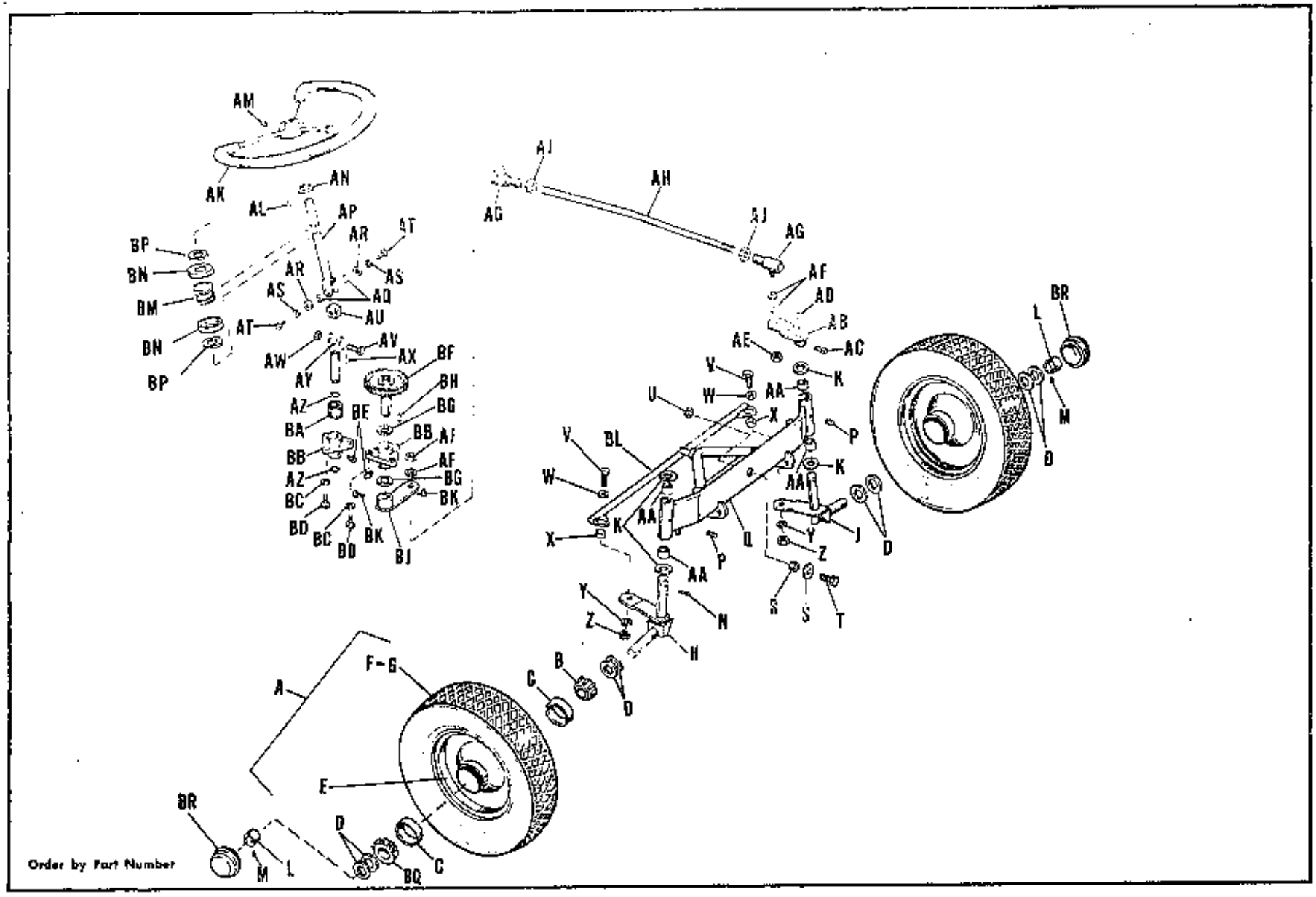
ORDER TIRE & TUBE REPLACEMENTS FROM TIRE MANUFACTURER.

Order by Part Number

REAR WHEELS AND AXLE

Order by Part Number

Reference Letter	Part No.	Description
A	105050	Washer
B	713006	Screw, Set, Cup Pt. Sq. Hd., 5/16"-18 NC x 1/2" lg.
C	8262023	Wheel
D	8261100	Bolt, Hub
E	154208	Hub, Wheel, L. H.
F	8061100	Key
G	715022	Screw, Set, Sq. Hd., Cone, 3/8" - 16 N. C. x 1-1/2" lg.
H	713004	Screw, Set, Sq. Hd., Cup, 3/8" - 16 N. C. x 1" lg.
J	717021	Nut, Hex., Jam, 3/8" - 16 N. C.
K	152040	Hub, Wheel, R. H.
L	105058	Bearing
M	152041	Bearing, Nylon
N	153068	Bearing
P	154400	Gear, Differential
Q	723003	Pin, Roll
R	152042	Plug
S	8261100	Bolt, Hub
T	154063	Carrier, Differential
U	151040	Key, Drive
V	154035	Washer, Axle
W	121149	Cover, Differential
X	121312	Gear, Differential
Y	725501	Key, Hi-Pro
Z	154291	Ring, Retaining
AA	153077	Washer, Axle
AB	154277	Washer, Axle
AC	121311	Pinion, Differential
AD	121083	Spindle, Pinion Differential
AE	121084	Spacer, Differential
AF	719002	Washer, Plain
AG	151022	Cover, Differential
AH	705003	Screw, Cap, Hex., 3/8" - 16 N. C. x 2-1/4" lg.
AJ	717510	Nut, Lock, Full Hex., 3/8" - 16 N. C.
AK	705002	Screw, Cap, Hex., 1/4" - 20 N. C. x 1/2" lg.
AL	720003	Washer, Lock, 1/4"
AM	717005	Nut, Full, Hex., 1/4" - 20 N. C.
AN	121190	Seal, Differential Cover
AP	154064	Axle, Rear
AQ	154065	Collar, Axle
AR	154065	Collar, Axle
AS	713503	Screw, Set, Cup Point, Hollow Head, 5/16" - 18 N. C. x 5/16" lg.

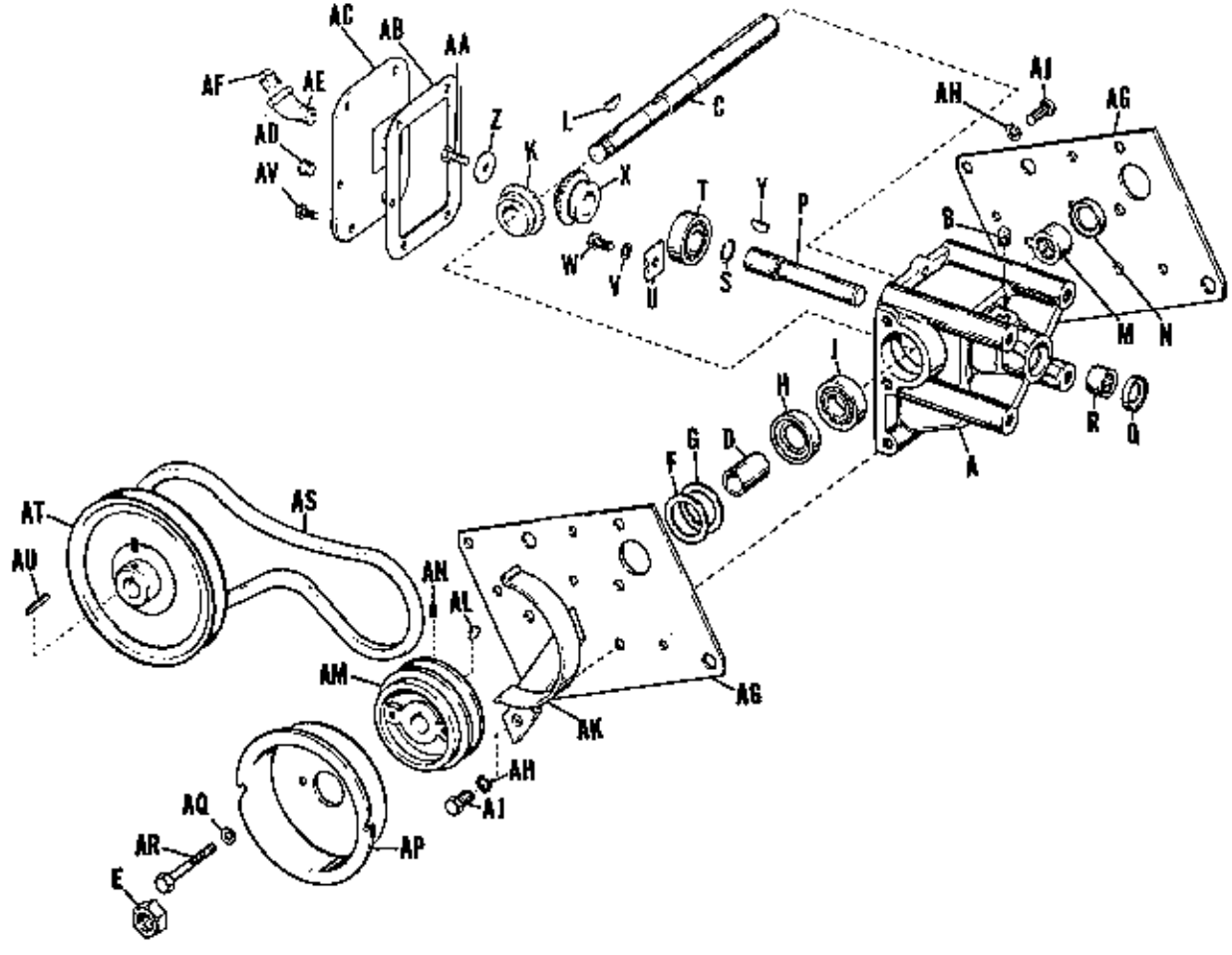


FRONT WHEELS, AXLE, TIE ROD & STEERING

FRONT WHEELS, AXLE, TIE ROD & STEERING

Order by Part Number

Reference Letter	Part No.	Description
A	154395	Wheel and Tire Assembly
B	154397	Cone, Bearing, w/seal
C	154393	Bearing Cup,
D	108181	Washer
E	154427	Wheel w/bearing cup
F	153037	Tire, 4.80/4.00
G	153038	Tube, 4.00 - 8
H	154168	Spindle Assembly, R. H.
J	154163	Spindle Assembly, L. H.
K	8061012	Washer
L	8021010	Collar, Set
M	713502	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 1/4" lg.
N	722007	Pin, Cotter, 3/16" x 1-1/2" lg.
P	727002	Fitting, Grease
Q	154255	Axle Assembly, Front
R	154182	Spacer
S	719004	Washer, Plain, 1/2"
T	705044	Screw, Cap, Hex., 1/2" - 13 N. C. x 1-1/2" lg.
U	717518	Nut, Hex., Full, Lock, 1/2" - 13 N. C.
V	705016	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/4" lg.
W	719001	Washer, Plain, 3/8"
X	154177	Spacer
Y	720002	Washer, Lock, 3/8"
Z	717003	Nut, Hex., Full, 3/8" - 16 N. C.
AA	154289	Bearing
AB	154172	Arm Assembly, Steering, L. H.
AC	713006	Screw, Set, Cup Point, Square Head, 5/16" - 18 N. C. x 1/2" lg.
AD	725504	Key, Hi-Pro
AE	717008	Nut, Hex., Full 1/2" - 20 N. C.
AF	720004	Washer, Lock, 1/2"
AG	154301	Joint, Ball
AH	154174	Rod, Tie
AJ	717014	Nut, Jam, 1/2" - 20 N. F.
AK	154298	Wheel, Steering
AL	725003	Key, Woodruff #9
AM	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
AN	108181	Washer
AP	154432	Shaft Assembly, Steering
AQ	153081	Spacer
AR	719001	Washer, Plain, 3/8"
AS	720002	Washer, Lock, 3/8"
AT	715030	Screw, Cap, Hex., 3/8" - 16 N. C. x 3/4" lg.
AU	154153	Pin, Universal Joint
AV	715026	Screw, Cap, Hex., Head, Special
AW	717511	Nut, Lock, Full, Hex., 5/16" - 18 N. C.
AX	725003	Key, Woodruff #9
AY	154154	Shaft Assembly, Steer, Pin
AZ	154264	Ring, Retaining
BA	154156	Pinion
BB	154157	Bearing, Steering Gear
BC	720001	Washer, Lock, 5/16"
BD	705012	Screw, Cap, Hex., 5/16" - 18 N. C.
BE	727002	Fitting, Grease, #1641
BF	154158	Gear Assembly, Steering
BG	8061012	Washer
BH	725003	Key, Woodruff #9
BJ	154161	Arm Assembly, Steering
BK	713006	Screw, Set, Cup Point, Square Head, 5/16" - 18 N. C. x 1/2" lg.
BL	154175	Drag Link
BM	154398	Spring, Compression
BN	154399	Cup, Spring
BP	108181	Washer
BQ	154486	Bearing, Outside.
BR	154487	Cap, Hub.



Order by Part Number

BEVEL GEAR HOUSING

BEVEL GEAR HOUSING

Order by Part Number

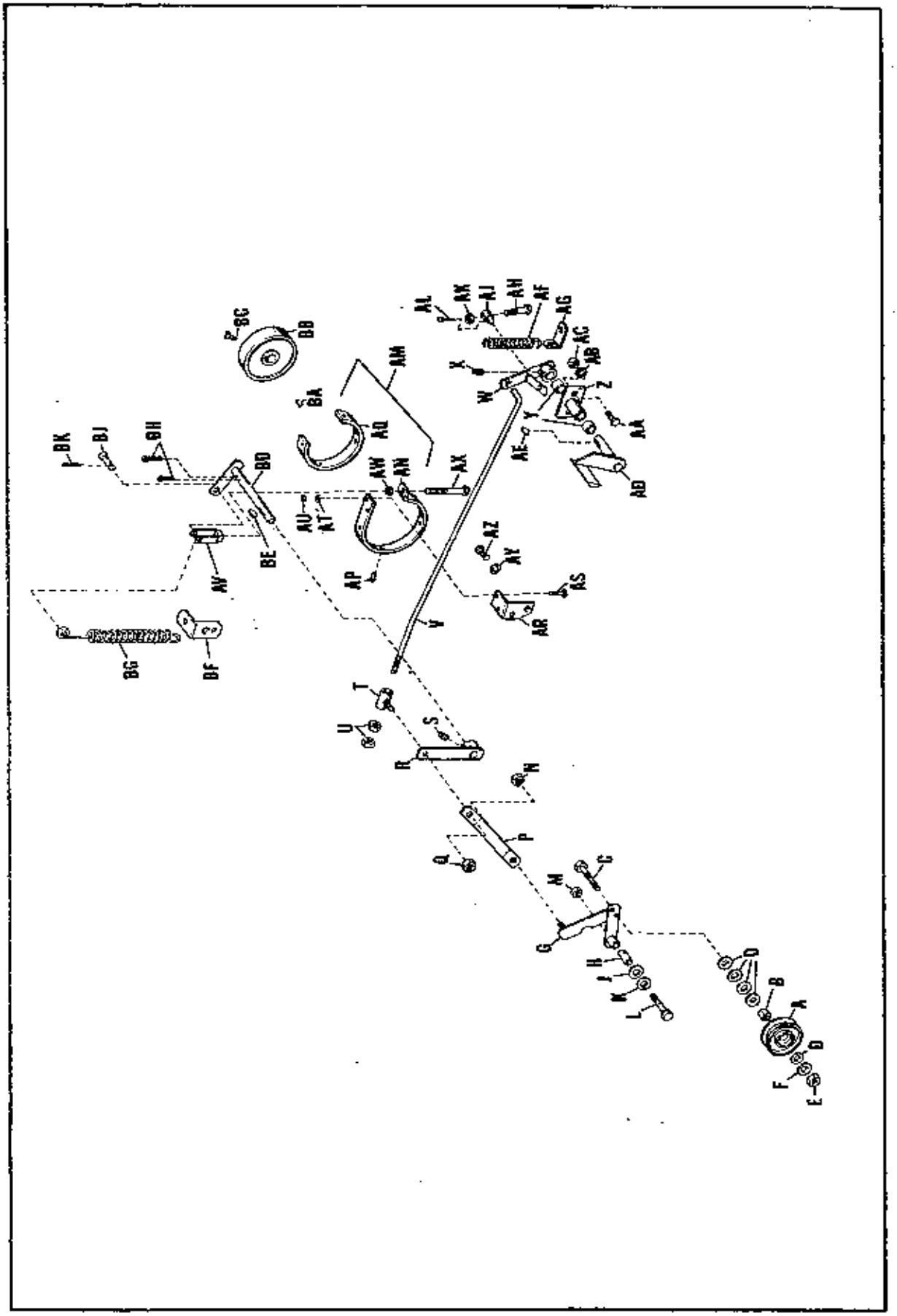
Reference Letter	Part No.	Description
A	154062	Housing, Bevel Gear, Complete w/2 needle brgs.
B	154326	Plug, Pipe
C	154135	Shaft, Driven
D	154136	Spacer, Pulley
E	717517	Nut, Hex., Jam
F	154137	Shim (as required)
G	154138	Shim
H	154278	Seal, Oil
J	118011	Bearing, Ball
K	154139	Gear, Bevel, Driven
L	725003	Key, Woodruff
M	154279	Bearing, Needle
N	118117	Seal, Oil
P	154140	Shaft, Driver
Q	154263	Seal, Oil
R	154258	Bearing, Needle
S	118134	Ring, Retaining
T	118011	Bearing, Ball
U	154040	Plate, Bearing Clamp
V	720001	Washer, Lock, 5/16"
W	705012	Screw, Cap, Hex., 5/16" - 18 N. C. x 5/8" lg.
X	154121	Gear, Bevel, Driver
Y	725003	Key, Woodruff
Z	154026	Washer
AA	154281	Screw, Cap, Hex., 5/16" - 18 N. C. x 3/4" lg.
AB	154282	Gasket
AC	154141	Cover Assembly, Housing
AD	726002	Plug, Pipe
AE	728001	Elbow, Street
AF	726003	Plug, Pipe
AG	154144	Plate, Side
AH	720006	Washer, Lock, 7/16"
AJ	705041	Screw, Cap, Hex., 7/16" - 14 N. C. x 1" lg.
AK	154101	Guard Assembly, Belt
AL	725003	Key, Woodruff
AM	154099	Pulley, Forward
AN	713503	Screw, Set, Cup Point, Socket Head, 5/16" - 18 N. C. x 5/16" lg.
AP	154384	Pulley, Rope Starter
AQ	720001	Washer, Lock, 5/16"
AR	705001	Screw, Cap, Hex., 5/16" - 18 N. C. x 7/8" lg.
AS	154273	Belt, V-Drive
AT	154272	Pulley, Drive
AU	8061081	Key
AV	707003	Screw, Cap, Hex., 1/4" - 20 x 5/8" lg.

LOW SPEED BELT & PULLEY KIT

ARTICLE 238

154418 Pulley
155004 Belt

[REPLACES (AT) AND (AS) ABOVE]

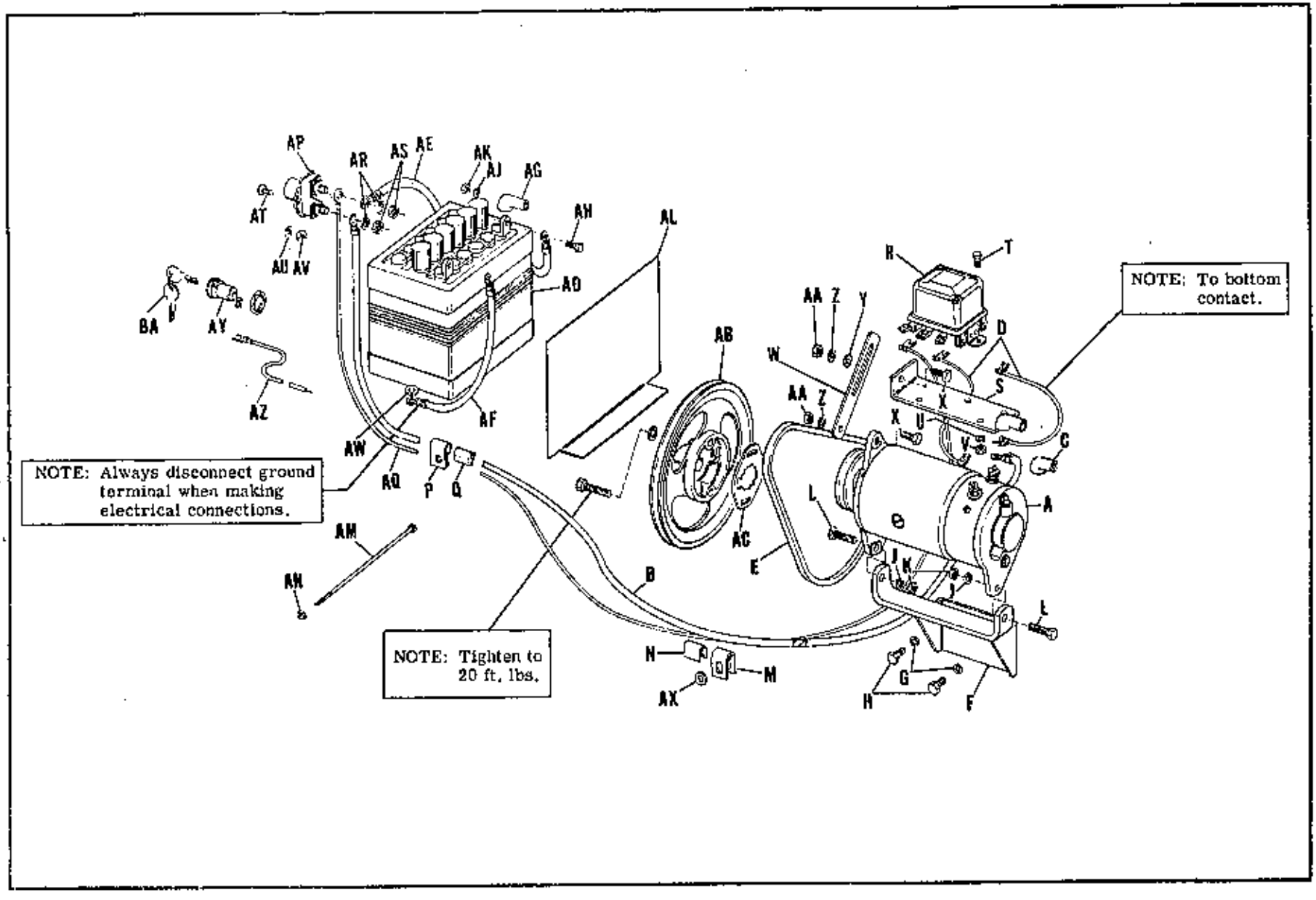


CLUTCH AND BRAKE GROUP

CLUTCH AND BRAKE GROUP

Order by Part Number

Reference Letter	Part No.	Description
A	108149	Pulley, Idler
B	8171045	Bushing
C	705010	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-3/4" lg.
D	719001	Washer, Plain, 3/8"
E	717003	Nut, Hex., Full, 3/8" - 16 N. C.
F	720002	Washer, Lock, 3/8"
G	154104	Lever Assembly, Idler
H	8061058	Spacer
J	719001	Washer, Plain, 3/8"
K	720002	Washer, Lock, 3/8"
L	705003	Screw, Cap, Hex., 3/8" - 16 N. C. x 2-1/4" lg.
M	717003	Nut, Hex., Full, 3/8" - 16 N. C.
N	717510	Nut, Lock, Hex., Full, 3/8" - 16 N. C.
P	154110	Link, Clutch
Q	717511	Nut, Lock, Hex., Full, 5/16" - 18 N. C.
R	154114	Lever Assembly, Clutch and Brake
S	713502	Screw, Set, Cup Point Socket Head, 5/16" - 18 N. C. x 1/4" lg.
T	154117	Guide Assembly, Rod
U	717001	Nut, Hex., Full, 5/16" - 18 N. C.
V	154118	Rod, Brake and Clutch
W	154120	Lever Assembly, Foot Pedal
X	713502	Screw, Set, Cup Point Socket Head, 5/16" - 18 N. C. x 1/4" lg.
Y	8271027	Bushing
Z	154123	Bearing Assembly, Foot Pedal
AA	705007	Screw, Cap, Hex., 5/16" - 18 N. C. x 1" lg.
AB	720001	Washer, Lock, 5/16"
AC	717001	Nut, Hex., Full, 5/16" - 18 N. C.
AD	154126	Pedal Assembly, Foot (Brake and Clutch)
AE	725002	Key, Woodruff #6
AF	121037	Spring
AG	154119	Clip, Spring
AH	715032	Screw, Cap, Hex., 3/8" - 16 N. C. x 3" lg.
AJ	108172	Pivot
AK	717003	Nut, Hex., Full, 3/8" - 16 N. C.
AL	722001	Pin, Cotter, 3/32" dia. x 3/4" lg.
AM	154132	Brake Band and Lining Assembly
AN	154060	Band, Brake
AP	724501	Rivet #7 x 5/16" lg.
AQ	154133	Lining, Brake
AR	154134	Bracket, Brake Band
AS	705030	Screw, Cap, Hex., 1/4" - 20 N. C. x 3/4" lg.
AT	720003	Washer, Lock, 1/4"
AU	717005	Nut, Hex., Full, 1/4" - 20 N. C.
AV	108157	Clevis, Adj.
AW	717003	Nut, Hex., Full, 3/8" - 16 N. C.
AX	715023	Screw, Cap, Hex., 3/8" - 16 N. C. x 3-1/4" lg.
AY	720002	Washer, Lock, 3/8"
AZ	705031	Screw, Cap, Hex., 3/8" - 16 N. C. x 7/8" lg.
BA	725003	Key, Woodruff #9
BB	154131	Drum, Brake
BC	713010	Screw, Set, Cup Point Square Head, 5/16" - 18 N. C. x 5/8" lg.
BD	154111	Shaft Assembly, Clutch and Brake
BE	725002	Key, Woodruff #6
BF	154248	Retainer, Spring
BG	154274	Spring
BH	722010	Pin, Cotter 1/8" x 1-1/4" lg.
BJ	108158	Pin, Clevis
BK	722001	Pin, Cotter, 3/32" x 3/4" lg.


NOTE: Always disconnect ground terminal when making electrical connections.
NOTE: Tighten to 20 ft. lbs.
NOTE: To bottom contact.

ELECTRIC STARTER-GENERATOR SYSTEM

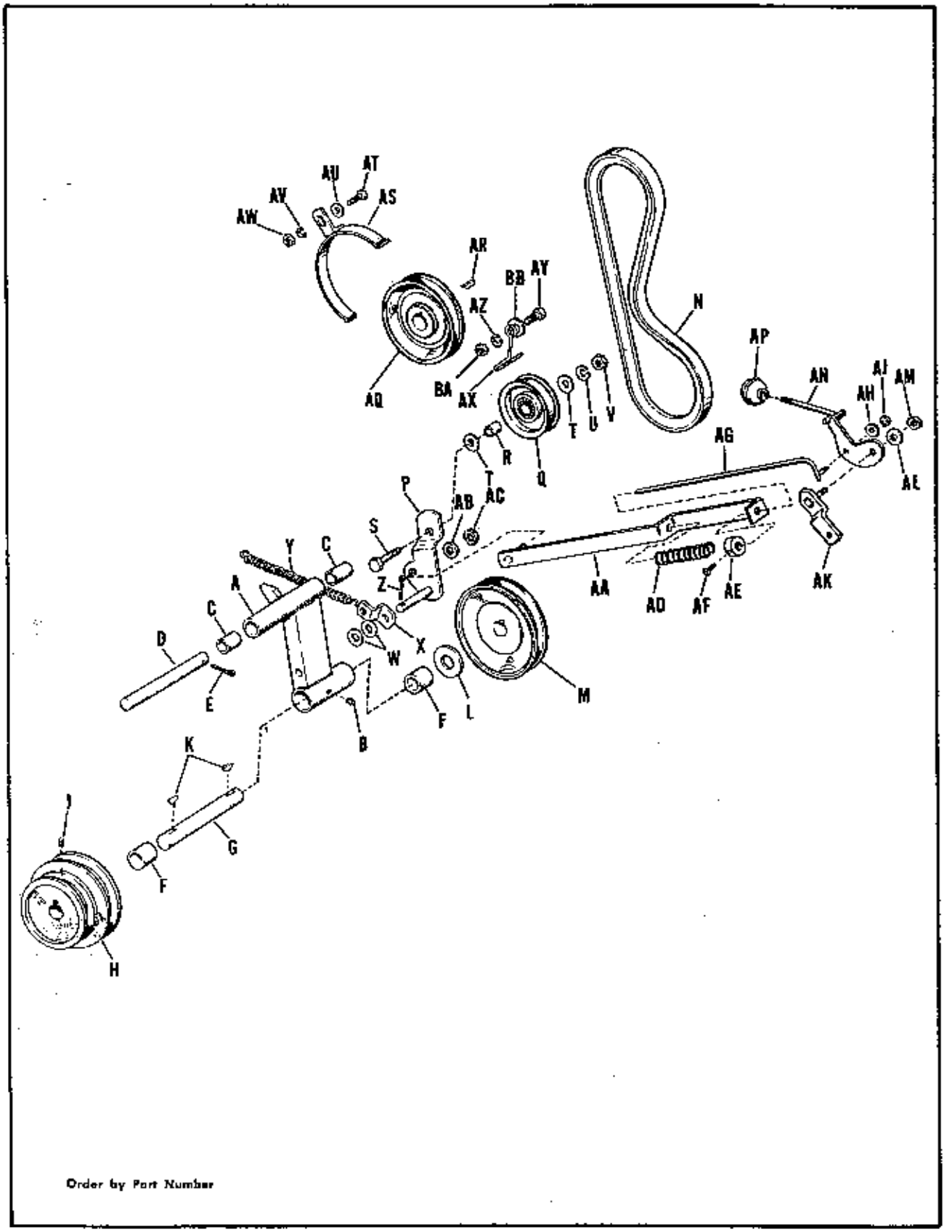
ELECTRIC STARTER-GENERATOR SYSTEM

Order by Part Number

Reference Letter	Part No.	Description
A	122041	Motor -Generator
B	122042	Cable, Switch to Generator
C	122023	Cover, Terminal
D	122043	Wire
E	122060	Belt, "V"
F	154253	Support Assembly
G	720001	Washer, Lock, 5/16"
H	705017	Screw, Cap, Hex., 5/16" - 18 N. C. x 3/4" lg.
J	720001	Washer, Lock, 5/16"
K	717001	Nut, Full, Hex., 5/16" - 18 N. C.
L	705019	Screw, Cap, Hex., 5/16" - 18 N. C. x 1-1/4" lg.
M	8061117	Clamp, Cable
N	122059	Lining, Clamp
P	122024	Clip, Cable
Q	122025	Lining, Clip
R	122044	Regulator, Voltage
S	154002	Bracket, Voltage Regulator
T	705002	Screw, Cap, Hex., 1/4" - 20 N. C. x 1/2" lg.
U	720003	Washer, Lock, 1/4"
V	717005	Nut, Hex., Full, 1/4" - 20 N. C.
W	154001	Tightener, Belt
X	705017	Screw, Cap, Hex., 5/16" - 18 N. C. x 3/4" lg.
Y	719002	Washer, Plain, 5/16"
Z	720001	Washer, Lock, 5/16"
AA	717001	Nut, Hex., Full, 5/16" - 18 N. C.
AB	154254	Pulley, Engine
AC	154292	Nut, Lock
AD	122001	Battery
AE	122079	Cable, w/cover
AF	122045	Cable
AG	122023	Cover, Terminal
AH	705015	Screw, Cap, Hex., 1/4" - 20 N. C. x 5/8" lg.
AJ	720003	Washer, Lock, 1/4"
AK	717005	Nut, Hex., Full, 1/4" - 20 N. C.
AL	154313	Gasket, Tank
AM	701013	Bolt, Mach., 1/4" - 20 N. C. x 7-3/4" lg.
AN	717513	Nut, Lock, Full, Hex., 1/4" - 20 N. C.
AP	122046	Switch, Starting
AQ	122047	Wire, Starting Switch to Regulator
AR	720002	Washer, Lock, 3/8"
AS	717003	Nut, Hex., Full, 3/8" - 16 N. C.
AT	705015	Screw, Cap, Hex., 1/4" - 20 N. C. x 1/2" lg.
AU	720003	Washer, Lock, 1/4"
AV	717005	Nut, Hex., Full, 1/4" - 20 N. C.
AW	719005	Washer, Plain, 1/4"
AX	719002	Washer, Plain, 5/16"
AY	122048	Switch, Ignition, w/keys
AZ	122049	Wire, Switch
BA	122111	Set, Ignition Keys

NOTE: Starter-Generator, voltage regulator, and starter switch are products of Delco-Remy and are serviced by authorized Delco-Remy dealers. Correspondence regarding battery must be addressed to the battery manufacturer.

POWER TAKE-OFF

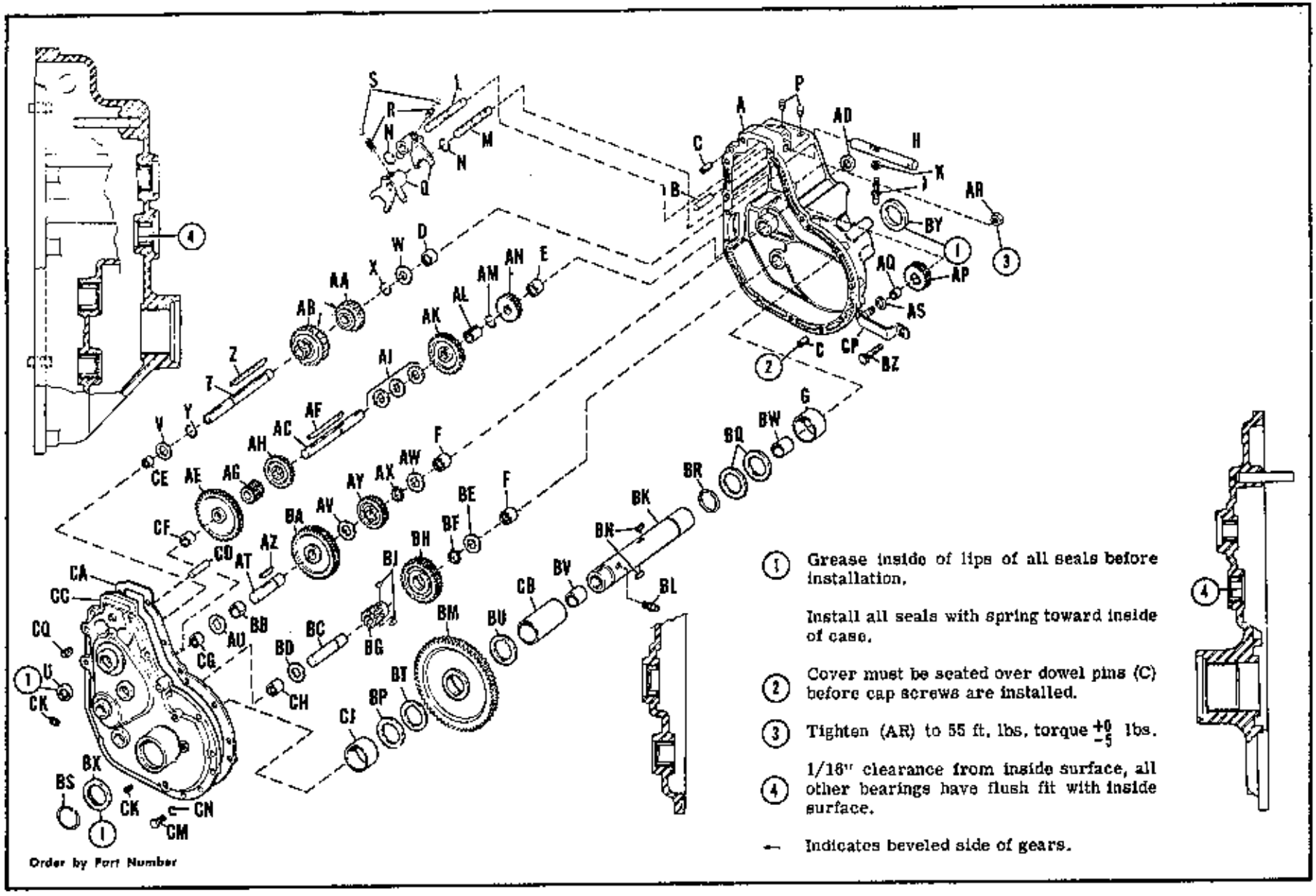


Order by Part Number

POWER TAKE-OFF

Order by Part Number

Reference Letter	Part No.	Description
A	154228	Bracket Assembly, Drive
B	727002	Fitting, Grease
C	8051038	Bushing
D	154233	Rod, Pivot
E	722007	Pin, Cotter
F	154258	Bearing, Needle
G	154234	Shaft, Power Take-Off
H	154355	Pulley, Power Take-Off
J	713503	Screw, Set, Cup Point, Socket Hd., 5/16" - 18 N.C. x 5/16" lg.
K	725003	Key, Woodruff
L	108182	Washer
M	154308	Pulley
N	154307	Belt, "V", Power Take-Off
P	154360	Lever Assembly, Idler
Q	154310	Pulley, Idler
R	8171045	Bushing
S	705016	Capscrew, Hex Hd., 3/8" - 16 N.C. x 1-1/4" lg.
T	719002	Washer, Plain, 5/16"
U	720002	Washer, Lock, 3/8"
V	717003	Nut, Hex, Full, 3/8" - 16 N.C.
W	719001	Washer, Plain, 3/8"
X	154368	Clip, Spring
Y	154369	Spring, Tension
Z	722009	Pin, Cotter, 1/8" x 3/4" lg.
AA	154365	Guide Assembly, Rod
AB	719001	Washer, Plain, 3/8"
AC	717510	Nut, Lock, Hex Hd., Full, 3/8" - 16 N.C.
AD	8191045	Spring
AE	8191022	Collar, Set
AF	713001	Screw, Set. Sq. Hd. Cup Pt., 1/4" - 20 N.C. x 3/8" lg.
AG	154364	Rod Assembly, Clutch
AH	719002	Washer, Plain, 5/16"
AJ	717511	Nut, Lock, Hex Hd., Full, 5/16" - 18 N.C.
AK	154362	Pivot Bar Assembly
AL	719001	Washer, Plain, 3/8"
AM	717510	Nut, Lock, Hex Hd. Full, 3/8" - 16 N.C.
AN	154356	Lever Assembly, Clutch
AP	122005	Knob
AQ	154312	Pulley
AR	8061081	Key
AS	154243	Guard Assembly, Belt
AT	705005	Capscrew, 3/8" - 16 N.C. x 1" lg.
AU	719001	Washer, Plain, 3/8"
AV	720002	Washer, Lock, 3/8"
AW	717003	Nut, Hex, Full, 3/8" - 16 N.C.
AX	8021014	Stop, Belt
AY	705031	Capscrew, 3/8" - 16 N.C. x 7/8" lg.
AZ	720002	Washer, Lock, 3/8"
BA	717003	Nut, Full, Hex, 3/8" - 16 N.C.
BB	719001	Washer, Plain, 3/8"


Order by Part Number
(1) Grease inside of lips of all seals before installation.
Install all seals with spring toward inside of case.
(2) Cover must be seated over dowel pins (C) before cap screws are installed.
(3) Tighten (AR) to 55 ft. lbs. torque +0 −5 lbs.
(4) 1/16" clearance from inside surface, all other bearings have flush fit with inside surface.
— Indicates beveled side of gears.

TRANSMISSION GROUP

TRANSMISSION GROUP

Order by Part Number

Reference Letter	Part No.	Description
A	154190	Case, Gear, Complete w/ bearings and dowel pins
B	723006	Pin, Roll
C	723007	Pin, Roll
D	154257	Bearing, Needle
E	154258	Bearing, Needle
F	154259	Bearing, Needle
G	154260	Bearing, Axle Tube
H	154066	Rod, Shift
J	154261	Stem, Shift
K	717010	Nut, Hex., Full, 3/8" - 24 N. F.
L	154067	Shaft, Shifter, Rev., Med.
M	154068	Shaft, Shifter, High, Low
N	8061048	Ring, Retaining
P	715019	Screw, Set, Hollow Head, Cone Point, 5/16" - 18 N. C. x 1 2 [illegible]
Q	154069	Fork, Shift
R	154323	Spring
S	154262	Ball, Shift Lock
T	154070	Shaft, Pulley
U	154263	Seal, Oil
V	154462	Washer
W	154462	Washer
X	154264	Ring, Retaining
Y	154264	Ring, Retaining
Z	154265	Key
AA	154072	Pinion Assembly, Rev., II
AB	154075	Pinion Assembly, I and III
AC	154077	Shaft, 1st Intm.
AD	154263	Seal, Oil
AE	154078	Gear, Driven, I
AF	154354	Key
AG	154079	Pinion, 1st Intm.
AH	154080	Pinion, Driven, III
AJ	8061012	Spacer, Trans. Gear
AK	154081	Gear, Driven, II
AL	154082	Spacer
AM	154264	Ring, Retaining
AN	154083	Pinion, Reverse
AP	154087	Gear, Reverse
AQ	154084	Spacer, Rev. Gear
AR	717516	Nut, Lock, 1/2" - 20 N. F.
AS	154325	Washer
AT	154086	Shaft, 2nd. Intm.
AU	154038	Washer
AV	154038	Washer
AW	154038	Washer
AX	154266	Ring, Retaining
AY	154088	Pinion, 2nd. Intm.
AZ	154267	Key
BA	154089	Gear, 2nd. Intm.
BB	154090	Spacer
BC	154091	Shaft, 3rd. Intm.
BD	154038	Washer
BE	154038	Washer
BF	154266	Ring, Retaining
BG	154092	Pinion, 3rd. Intm.
BH	154093	Gear, 3rd. Intm.
BJ	725002	Key, Woodruff
BK	154094	Tube, Axle

TRANSMISSION GROUP (cont.)

Order by Part Number

Reference Letter	Part No.	Description
BL	727002	Fitting, Grease
BM	154095	Gear, Drive
BN	154096	Key
BP	154097	Washer
BQ	154097	Washer
BR	154268	Ring, Snap
BS	154268	Ring, Snap
BT	154130	Washer, Axle Tube
BU	154130	Washer, Axle Tube
BV	153068	Bearing
BW	153068	Bearing
BX	154269	Seal
BY	154269	Seal
BZ	705016	Screw, Cap, Hex., 3/8" - 16 N. C. x 1-1/4" lg.
CA	154270	Gasket, Gear Case
CB	154098	Spacer, Axle Tube
CC	154191	Cover, Gear Case, Complete w/ bearings
CD	723006	Pin, Roll
CE	154258	Bearing, Needle
CF	154257	Bearing, Needle
CG	154271	Bearing, Needle
CH	154259	Bearing, Needle
CJ	154260	Bearing, Axle Tube
CK	726003	Plug, Pipe, 3/8"
CM	705007	Screw, Cap, Hex., 5/16" - 18 N. C. x 1" lg.
CN	720001	Washer, Lock, 5/16"
CP	154352	Pin Assembly, Rev. Gear
CQ	726003	Plug, Pipe, 3/8"